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ARACHNIDA

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12. ARACHNIDA

to which are added

MEROSTOMATA, PANTOPODA, PENTASTOMIDA, TARDIGRADA,
MYRIAPODA and ONYCHOPHORA

compiled by
ERNEST BROWNING

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I.—TITLES

The year of publication is omitted where it is the same as the volume year of the 'Record', namely (1957).

Direction 60. Designation under the Plenary Powers of a type species for the genus *Scorpio* Linnaeus, 1758 (Class Arachnida) in harmony with accustomed usage and suppression under the same Powers of the specific name *europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus* (amendment of a Ruling given in Opinion 104). Opin. int. Comm. zool. Nom. 1E : 1-12.

Direction 66. Completion and in certain cases correction of entries relating to the names of genera belonging to the Phylum Arthropoda, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea. Opin. int. Comm. zool. Nom. 1E (6) : 85-110.

Direction 67. Addition to the *Official List of Specific Names in Zoology* (a) of the specific names of twenty species belonging to the Classes Trilobita, Crustacea (other than species of the Order Decapoda), Diplopoda and Arachnida, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* up to the end of 1936, and (b) of the specific name of one species belonging to the Class Arachnida which is currently treated as a senior synonym of the name of such a species. Opin. int. Comm. zool. Nom. 1E (7) : 111-128.

Opinion 454. Designation under the Plenary Powers of a type species in harmony with accustomed usage for *Scolopendra* Linnaeus, 1758 (Class Chilopoda). Opin. int. Comm. zool. Nom. 15 : 357-378.

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Bionomics. — *Dermacentor pictus*, Lebedev; *Trombicula akamushi* and *T. scutellaris*, Sasa et al. (6).

Soil ecology.—Acarine of arable land, Baring; Acarina in the soil, Knülle; Nosek & (1); Sheals (1).

Ecological association.—Pseudoscorp., Aran., Acar. associated with carrion, Bornemissza; Aran. from apple trees, Dondale; Aganippini spiders, Main & (1).

Ecological associations: cavernicolous. *Eukoenenia spelaea*, Condé; Aran., Barajon.

Migration. — *Tetranychus telarius*, Boyle.

Distribution. — Geographical distribution in Western Australia of Aganippini spiders, Main; Vertical distribution of Oribatei, Knülle (2); Hydrach. of Pyrenees, Angelier; Vertical distribution of Hydrach., Láska; Trombiculids

in Central Asia and Kazakhstan, Bibikova et al. (1); Ixod. of U.S.S.R., Anastos; *Haemaphysalis flava*, Asanuma et al. (6); *Dermacentor variabilis* in New Hampshire, Blickle & Conklin; *Ornithodoros* in Transcaucasus, Shustrov; *Rhipicephalus humeralis*, Walker.

Dispersal. — *Tetranychus telarius*, Boyle; *Aceria tulipae*, Gibson & Painter (1).

Introduced Arach.—Aran. from Belgian Congo into Germany, Schmidt (3).

General habits.—Males and females of spiders, Denis, (1); *Dictyna civica*, Billaudelle; Lycosid spiders carrying snail shells, Locket & Marsh; *Histiosoma polypori* relationship with earwig, *Forficula auricularia*, Behura; *Laelaps echidninus*, Thomas, H. A.; *Steneotarsonemus pallidus*, Boyle & Haramoto (1).

Feeding habits.—*Isometroides vescus* feeding on *Conothelus malayana*, Main (2); Aganippini spiders, Main; *Dictyna civica*, Billaudelle; Prey of *Dolomedes fimbriatus*, Schmidt (2); *Phoneutria fera*, Tretzel; Capture of prey by *Uroctea durandi*, Crome (3); *Chaobactylus* spp., Lith; *Czerniavskia lordi*, Dosse & Schneider (8); *Echinolaelaps echidninus*, *Haenolaelaps glasgowi* and *Laelaps nuttalli*, Wharton & Cross; *Haemogamasus ambulans*, Furman (1); *Macrocheles glaber* preys on *Musca domestica*, Filippioni & Cervone; *Micromegistus bakeri*, Johnston et al.; *Ophionysus natricis*, Camin & Ehrlich; *Ornithodoros moubata*, Walton; Oribatid, Murphy; Feeding times of trombiculid larvae, Harrison; Feeding and relationship of fertilization in Ixod., Balashov (1).

Courtship.—*Opistophthalmus latimanus*, Alexander (1); Comparative survey of the Arach., Alexander & Ewer (2); *Euscorpius italicus*, Angermann; *Heterometrus scaber*, Mathew; *Tityus bahiensis* & *T. trivittatus*, Bücherl (3); *Dictyna civica*, Billaudelle; *Dolomedes fimbriatus*, Schmidt, (2); *Pardosa amentata*, Schmidt (1); *Phoneutria fera*, Tretzel; Pionid water mites, Mitchell (1).

Sex relations.—*Dolomedes fimbriatus*, Schmidt, G.

Oviposition.—*Dictyna civica*, Billaudelle; Function of cocoon of *Latrodectus geometricus*, Bouillon (1); *Dermacentor parumapertus*, Jorgensen.

Population studies.—*Trochosa ruricola*, Hackman (1); *Eotetranychus sexmaculatus* and *Metatetranychus citri*, Pratt; *Metatetranychus citri*, Jeppson et al.; *Tetranychus* and *Metatetranychus*, Hamstead & Gould; *Typhlodromus* spp., Dosse; Acarina in nests of wood rat, *Neotoma lepida lepida*, Howell et al.; Acarina from nests of *Peromyscus leucopus*, Drummond; Hydrach., Láska.

Seasonal abundance.—*Dermacentor parumapertus*, Rosasco.

Seasonal occurrence.—Trombiculids, Sasa et al (7).

Enemies.—Of scorpions, Vachon (5); Predators and parasites of Aganippe spiders, Main; *Conothelus malayana* preyed on by *Isometroides vescus*, Main (2); *Dolomedes fimbriatus*, Schmidt (2); Acrocerid (*Oncodes fumatus*) parasitic on *Misumena vatia*, Crome; Ichneumonid parasites and Eulopid hyperparasite of egg-sacs of *Tetragnatha extensa*, Smith, K. G. V.; Spiders preyed upon by *Dipogon sayi* (Pompiliidae). Medler & Koerber; *Baeus semilunum* (Hym.) parasite of eggs of spiders, Vachon (1); *Malacocoris chlorizans smaragdina* preying on eggs of *Metatetranychus ulmi*, Foschi & Carlotti (1); Predators of *Oligonychus pratensis*, Dean; Predators of Tetranychoids in Russia, Beglarov; Typhlodromids feeding on *Czenspinskia lordi*, Dosse & Schneider (8); *Ixodes ricinus* infected with *Beauveria globulifera* (fungi), Samšňáková.

Web construction.—Cribellate and ecribellate Aran., Lehmensick & Kullmann; *Dictyna civica*, Billaudelle.

Parasitism: Host lists.—Egyptian Ixod., Hoogstraal & Kaiser (3); Ixod. of U.S.S.R., Anastos; *Rhipicephalus humeralis*, Walker.

Parasitism: Mammalian hosts: General.—Acar. of *Eliomys quercinus* and *Glis glis*, Jurik; Acar. of small mammals in Poland, Zapletal; Acar. of rodents and nests in U.S.S.R., Visoshkaya & Bregetova; Acar. of rats in Japan, Asanuma; Acar. from rodents in Haifa, Gratz; Acar. in nests of *Neotoma l. lepida* in U.S.A., Allred & Roscoe (6); Laelaptid and trombiculid of small forest mammals in California, Jameson & Brennan; Egyptian ticks, Hoogstraal et al. (4); Ticks and mites of Indiana mammals, Wilson; Acar. of

small mammals of Maryland, Drummond (1); Haemogamasidae off mice in Utah, Allred, D. M. (2).

Parasitism: Mammalian hosts: Mesostigmata.—*Bdellonyssus bacoti* attacking man, Skierska; *Dermanyssus gallinae* attacking man, Duncan; *Dermanyssus becki* and *Hirstionyssus femuralis* off *Peromyscus* spp., Allred; *Haemolaelaps dogieli* off *Sicista betulina* (forest mouse) Schulman; *Hirstionyssus gudauricus* off *Microtus gud.*, Razumova; *Hirstionyssus elongatus* off *Atherurus armatus* and *H. heliosciurus* off *Heliosciurus rufobrachium*, Taufflieb & Mouchet (1); *Hirstionyssus minor* and *H. myospalacis* off *Myospalax myospalax*, Zemskaya & Piontkovskaya; *Zygodaelaps madagascariensis* off *Nesogale dobsoni* (Mamm.), Tipton; *Periglischrus strandmanni* off bat (*Mormoops megalophylla senicula*), Tibbets; *Pneumonyssus pangorillae* off chimpanzee, Pan paniscus and off *Gorilla g. rex*; *Pneumonyssus longus* off *Cercopithecus a. ascanius*, Fain (6); *Raillietia auris* off cattle, Menzies.

Parasitism: Mammalian hosts: Trombiculidae.—*Acomatacarus cooki* in ear of domestic cat, Southcott (3); *Acomatacarus dendrohyracis* off *Dendrohyracis* sp., *Acomatacarus lemniscomyia* off *Lemniscomyss striatus*, Vercammen-Grandjean (3); *Acomatacarus (A.) mutabilis*, Schöngastia hyracis, *Trombicula mini*, *Trombicula rossi*, off *Hyrax* sp.; *Trombicula ugandae* off *Canis familiaris*; *Trombicula caderi* off *Miniopterus* sp.; *Whartonias oveni* off *Rhinolophus eloquens* and off *Rousettus* sp., Vercammen-Grandjean & Brennan (5); *Acomatacarus romeri* and *Helenicula hongkongensis* of *Rattus rattus*, Womersley (2); *Ascoshongastia sellnicki* off *Rattus bowersi*; *Neotrombicula anax* off rat; *Pseudoshongastia novita* off *Rattus rajah*, off *Tupaia glis*; *Trombicula langati* off *Rattus edwardsi*, off *Rattus mulleri*, off *Callosciurus tenuis*, Audy & Womersley (6); *Crotiscus aetherios* off *Chinchillula sahamae* and off *Neotomys ebriosus*; *Crotiscus dispar* off *Punomys lemminus*; *Crotiscus frigipes* off *Neotomys ebriosus*, off *Chinchillula sahamae*, off *Phyllotis pictus*; *Crotiscus hayesi* off *Lagidium peruanum*, Brennan; *Elianella anomaluri* and *Euschöngastia mailloti* off rat, *Cricetomys gambianus*, Taufflieb & Abonnenc; *Euschöngastia*

ulcerofaciens off *Microtus arvalis*, Daniel; *Euschöngastia pannonica* off *Citellus citellus* and off *Microtus arvalis*; *Trombicula (N.) pardorfensis* off *Talpa europea*, off *Citellus citellus*, off *Apodemus sylvaticus*, off *Clethrionomys glareolus*, Kepka; *Euschöngastia spalaxia* off *Spalax kirgisorum ehrenbergi* (rodent); *Trombicula acomys* and *T. palestinianus* off *Acomys cahirinus*, Radford; *Globularoschöngastia rattihainkonga* off rat, Hsu & Chen; *Gahrliepia (W.) chinensis*, *G. (W.) pacifica*, *Acomatacarus majesticus*, all off *Rattus norvegicus*, Chen & Hsu; *Gahrliepia (W.) koi* off *Rattus flavipectus*; *G. (G.) yangchenensis* off *Suncus murinus*, off *Rattus flavipectus* & R. norvegicus, Chen & Hsu (1); *Gahrliepia neosinensis* off *Rattus* sp., Hsu & Wen (1); *Gahrliepia alpestris* off *Rattus bowersi*; *G. cupa* off *Rattus raja surifer*; *G. cuspidata* off *Rattus sabanus*; *G. erana* off *Tupaia belangeri versurae*, off *Rattus f. fulvescens*, off *Rattus flavipectus yunnanensis*, off *Rattus r. sladeni*, off *Anourosorex squamipes assamensis*; *G. kritochaeta* off *Rattus r. thai*; *G. micropelta* off *Mus* sp.; *G. mima* off *Dremomys everetti*, off *Rattus w. whiteheadi*, off *Tupaia montana baluensis*, off *Nannosciurus whiteheadi*; *G. morrowae* off *Rattus sabanus*, off *Rattus alticola*; *G. nani-parma* off *Rattus w. whiteheadi*; *G. rectifunda* off *Rattus w. whiteheadi*; *G. simulata* off *Rattus edwardsi ciliatus*, off *Rattus alticola*, off *Rattus rattus*, off *Rattus soricicola*; *G. soricicola* off *Crocidura* sp., off *Rattus flavipectus yunnanensis*, off *Anourosorex squamipes*; *G. ewingi lupella* off *Bandicota* sp., Traub & Evans; *Gahrliepia barbigera* off shrew; *G. fenestrulata* off rat; *G. marshi* off wild pig; *G. ordinata* off *Rattus a. alticola*; *G. argalea* off *Rattus sabanus* and tree shrew, *Tupaia glis*; *G. cucurbitula* off *Rattus* spp., Traub & Morrow (1); *Gahrliepia (F.) felis* in nasal cavities of *Felis lybica ugandae* and *Gahrliepia (F.) manis* in nasal cavities of *Manis (P.) tricuspidis*, Vercammen-Grandjean & Fain (6); *Heaslipia weberi angolensis* off *Lemniscomys striatus*, Vercammen-Grandjean & Audy (4); *Traubacarus alticola*, *T. brachypus*, *T. browningi*, *T. domrowi*, *T. harrisoni*, *T. intermedia*, *T. jadini*, *T. manipurensis*, *T. owenevansi*, *T. varmai*, *T. vercammeni* all off *Rattus* spp., Audy

& Nadchatram (5); *Trombicula* spp. off rodents in Czechoslovakia, Daniel (3); *Trombicula aguti* off *Dasyprocta aguti* and *T. pacae* off *Cuniculus paca* and off *Dasyprocta aguti*, Floch & Fauran; *Trombicula bandupi* and *Whartonias indica* off *Rhinolophus rouxi*, Hriegaudar & Bal (3); *Trombicula (L.) fukuoka* off *Apodemus speciosus*, Kamo; *Trombicula raropinnis* off *Crocidura* sp. and off *Aticola* sp.; *Trombicula reptilis* off *Alsophylax pipiens*; *Trombicula tarda* off *Microtus nivalis*, off *Cricetus migratorius*, off *Apodemus sylvaticus* and off *Prometheomys schaposchnikovi*, Schluger; *Trombicula densipiliata dumbletoni* off rat, Womersley & Audy (5); *Trombiculids* from rats in China, Tung; *Whartonias penthor* off bat, *Cynopteris (P.) lucasi*, Womersley (1).

Parasitism: Mammalian hosts: Metastigmata.—*Amblyomma barbaricum* off buffalo, *Syncerus caffer pungwensis*; *Rhipicephalus confusus* off buffalo, *Syncerus caffer pungwensis*, off *Phacochoerus aethiopicus sundevalli*, off *Taurotragus oryx livingstoni*, off *Potamochoerus porcus koiroptamus*, off *Sylvicapra grimmia altifrons*, off *Ozanna g. grandicornis*, off *Kobus e. ellipsiprymnus*, Dias; *Aponomma capponii* off *Manis javanica*, Toumanoff & Maillard; *Dermacentor parumapertus* off *Lepus californicus deserticola*, Rosasco; *Haemaphysalis flava* off wild hares, Asanuma et al. (6); *Haemaphysalis nishiyamai* off *Sus taivanus*, off *Canis familiaris*, off *Homo sapiens*, Sugimoto; *Ixodes downsi* off bat, *Anoura g. geoffroyi*, Kohls (1); *Ixodes lemuris* off *Lemur rufifrons*; *Ixodes rageaudi* off *Lasiopyga cephala* (Mamm.), Arthur (6); *Ixodes kaiseri* off *Vulpes vulpes aegyptiaca*, Arthur (2); *Ixodes colasbelcourii* off *Rattus r. alexandrinus*, Arthur (1); *Ixodes moreli* off *Cephalophus niger* (Antelope), Arthur; *Ixodes muniensis* off *Cephalophus* sp.; *I. procaviae* off *Dendrohyrax adolfifriedericici*; *I. pseudororasus* off leopard; *I. thomasae* off *Arvicantis abyssinicus nubilans* and off *Otomys tropicalis elgonis*, Arthur & Burrow (7); *Ixodes (Ixodiopsis) stromi* off *Alticola argentatus*, off *Clethrionomys frater*, off *Stenocranius gregalis*, off *Apodemus sylvaticus*, Filipova (1); *Ixodes banksi* off beaver, *Castor canadensis*, Hays & Lawrence;

Ornithodoros lahorensis off sheep, **Gavrichenkov**; *Rhipicephalus boueti* off *Proeavia ruficeps*, **Morel**; Off monkeys in Kenya, **Garnham**.

Parasitism: Mammalian hosts: Other Acarina.—*Acarus siro* in intestine of dog, **Viloria**; *Archemyobia trinidadensis* off woolly opossum, **Tibbets** (1); *Cheyletiella parasitivorax* causing dermatitis in man, **Pirilä & Muroma**; *Chorioptes bovis* off cow, horse, goat and sheep, **Sweatman**; *Demodex bovis* off cattle, **Koutz** (2); *Demodex caviae* off pigs, **Bacigalupo & Roveda**; *Demodex* off dogs, **Koutz**; *Makialges lepilemuri* off *Lepilemur mestelinus*; *M. sternodons* of *Lepilumur* sp.; *M. propithei* off *Propithecus verreauxi*; *Fsoroptoides gorillae* off Gorilla gorilla, **Gaud & Till** (4); *Myocoptes glareoli* off *Clethrionomys glareolus*, **Samšinák** (7); *Neomyobia luzonensis* off bat; *Notolaelaps nova guinea* off bat, *Syconycteris crassa papuana*; *Plesielaelaps miniopterus* off bat, *Miniopterus schreibersi*, **Womersley** (3); *Psorergates hystrici* and *Rhinophaga hystrici* off *Hystrix africaeaustralis*, **Till** (2); *Rhinophaga atheruri* and *R. leopoldi* in frontal sinus of porcupine, *Atherurus africanus centralis*, **Fain** (3).

Parasitism: Avian hosts: Mesostigmata.—*Ptilonyssus cerchnei* off *Cerchneis tinnunculus rufescens*, *P. indicatrix* of Indicator indicator, *Sternostoma laniorum* var. *batis* off *Batis molitor puello*, **Fain** (8); *Ruandanyssus terpsiphonei* in nasal cavities of *Terpsiphone viridis kivuensis* and *R. apus* in nasal cavities of *Apus caffer streubeli*, **Fain**; *Sternostoma cisticolae* off *Cisticola chiniana*, **Fain** (2); *Sternostoma hutsoni*, *S. spatulatum* in nasal cavity of *Hylocichla u. ustulata* (russet-backed thrush) and *S. strandtmanni* in nasal cavity of *Agelaius tricolor*, **Furman**.

Parasitism: Avian hosts: Prostigmata.—*Blankaartia laniarius* off *Laniarius erythrogaster*, **Radford**; *Euschöngastia (Helenicula) vercammengrandjeani* off Guinea-fowl (*Numida meleagris*), **Abonnenc & Taufflieb**; *Euschöngastia pilosa* off *Numida meleagris* (guinea-fowl), **Abonnenc & Taufflieb** (1); *Heaslipia weberi weberi* off *Capella media* (Charadriiformes), *Vercammen-Grandjean & Audy* (4); *Multigniella cosmetornis* off *Cosmetornis vexillarius*, *Vercammen-Grandjean & Fain* (7); *Syringophilus*

bipectinatus on domestic fowl, **Ram-mohan Rao & Hiregauder** (1); *Trombiculids* off birds, **Jeu & Wen** (2).

Parasitism: Avian hosts: Cryptostigmata.—*Anisodiscus eupariphus* off *Camaroptera brevicaudata tintca* and off *Herpysteira bairdi*; *A. megadiscus* off *Anthreptes frazeri cameronensis*; *Thyzanocercus callithyrus* off *Micropus affinis*; *Alloptes ferrandi* off *Phalacrocorax africanus*; *Alloptes orthogramme* off *Actitis hypoleucos*; *Alloptes stenurus* off *Hagedashia hagedash*; *Monojoubertia grandiloba* off *Anthreptes frazeri cameronensis*, off *Cyanomitra verticalis*, off *Cinnyris chloropygius*; *Protophyllodes acanthicus* off *Muscicapa striata*; *P. anisogamus* off *Picathartes oreas*; *P. aphyllus* off *Dicrurus atripennis*; *P. meciostocaulus* and *P. pachycarus* off *Pyrrhurus simplex*; *P. pachynotus* off *Pedilorrhynchus comitatus camerunensis*; *P. rhynchoscaulus* off *Platysteira cyanea*; *P. stenophyllus* off *Pycnonotus barbatus gabonensis*, and off *Thescelocichla leucopleura*; *Brephosceles dolichocaulus* off *Actitis hypoleucos*; *B. histionotus* off *Charadrius forbesi*; *B. orthothrix* off *Galachrysa nuchalis*; *Pterodectes acutylurus* off *Vidua macroura*; *P. agriocercus* off *Pyrrhus simplex* and off *Baepogon indicator*; *P. alloculus* off *Platysteira cyanea*; *P. amblycercus* off *Chloropeta natalensis batesi*; *P. brachycerus* off *Malimbus coronatus*; *P. centropus* off *Trachylaemus purpuratus*; *P. dicruri*, off *Dicrurus atripennis* and off *D. adsimilis*; *P. diplocerus* off *Stizorhina frazeri*; *P. diplotrema* off *Poeoptera lugubris*; *P. gigas* off *Amblyospiza albifrons saturata*; *P. glyphonotus* off *Alseonax cassini* and *Pedilorrhynchus comitatus*; *P. heterocerus* off *Nigrita canicapilla*; *P. holostictus* off *Pycnonotus barbatus gabonensis*, off *Bleda eximia*, off *Calyptocichla serina*; *P. leioplax* off *Cossypha cyanocompter*, off *Chlorocichla simplex* and off *Atimatiillas flavicollis soror*; *P. listroproctus* off *Picathartes oreas*; *P. mesocaulus* off *Anthreptes frazeri cameronensis*; *P. oligostictus* off *Lagonistica rubricata*, off *Clytospiza monteiri*, off *Estrilda nonnula*; *P. pardalis* off *Malimbus coronatus*; *P. platynoterus* off *Eranornis longicauda*; *P. synosternus* off *Spermophaga haematina*; *Allanalges eury soma* off *Gymnobucco bonapartei*; *A. leiocephalus* off *Turdoides plebeja*; *A. octophyllus* off

Jynx ruficollis: *A. orthocentros* off *Pogonius erythronotos*, off *Buccanodon duchaillui*; *Calcealges gyroplax* off *Calyptocichla serina*; *C. trichoplax* off *Arizelocichla falkensteinii*; *C. margaropygus* off *Nigrita canicapillo*, off *Lagonostica rubricata*; *C. troglophygus* off *Spermophaga haematina*, **Gaud & Mouchet** (3); *Astridiella caprimulgii* off *Caprimulgus europaeus*, off *Scotornis fossi* welwitschi also of *Cosmetornis vexillarius*; *Astridiella neotis* off *Neotis cafra*; *Astridiella vitzthumi* off *Otis tarda*, **Fain** (7); *Dinalloptes anisopus* off *Phalacrocorax africanus*, **Gaud & Mouchet** (2); *Freyanomorpha diversa* off *Galachrysia nuchalis* (*Glareolidae*), *F. ambigua* off *Charadrius alexandrinus nigrirostris* (*Charadiidae*), **Gaud**; *Knemidokoptes pilae* off *Palaeornis torquatus* (*parrakeet*) and off *Ara* sp., **Jansen**; *Lemurnyssus galagoensis* in nasal cavities of *Galago senegalensis* moholi; *Yunkeracarus muris* in nasal cavities of *Arvicantis abyssinicus* rubescens, **Fain** (1); *Ophthalmodnathus dogieli* off *Ardea cinerea*, **Dubinin** (2); *Pterodectes buphagi* off *Oxpecker*, *Buphagus erythrorynchus*; *P. delicatulus* off *Passer grisea*, **Till** (1); *Tubinoptes strandmanni* in nasal cavities of *Larus r. ridibundus*, **Dubinin & Snegireva** (3).

Parasitism: Avian hosts: *Metastigmata*.—*Argas persicus* and *Ixodes* sp. off *Gambel Quail* (*Lophortyx gambelii*), **Gullion**; *Haemaphysalis wellingtoni* off grey thrush, *Turdus c. cardis*, **Ananuma & Kōsaka** (4); *Hyalomma plumbeum* off *Anthus trivialis*, **Černý & Balát** (2); *Ixodes signatus* off *Larus crassirostris*, **Ananuma et al.** (5); *Ixodes tauricus* off cormorant, *Phalacrocorax aristoteles*, **Vshivkov & Filippova**; *Ixod.* of seabirds, **Thompson**.

Parasitism: Reptilian and Amphibian hosts.—*Acomatacarus langani* in external auditory meatus of skink, *Lygosoma bicarinata*; *A. mathewi* in external auditory meatus of *Lygosoma spaldingi*, **Southcott** (3); *Acomatacarus (M.) buretti* off Lizard, *Riopa fernandi*, **Vercammen-Grandjean**; *Fonsecia ptyas* off rat snake, **Rammohan Rao & Hiregaudar**; *Hamertonia psammophis* off grass snake (*Psammophis sibilans trinasalis*); *Mabuyonyssus freedmani* off pearly bushveld skink (*Mabuya quinquetaeniata maragaritifer*); *Neoliponyssus africanus* off girdled lizard (*Pseudocordylus microlepidotus*); *Neoli-*

ponyssus lawrencei off striped skink (*Mabuya striata*); *Neoliponyssus tropidosaureae* off Cottrell's mountain lizard (*Tropidosaura cottrelli*); *Ophidilaelaps capensis* off Russet snake (*Duberria lutrix*); *Ophionyssus mabuyaee* off striped skink (*Mabuya striata*), **Till**; *Ixodorrhynchus gordoni* off *Natrix tigrina lateralis*, **Tibbets & Strandtmann** (2); *Schongastia propria* off *Natrix piscator*, **Audy & Womersley** (6); *Schongastia longisetosa* and *Tragardhula najai* off *Naja naja*, **Hiregaudar** (2); *Siseca southcotti* off *Lygosoma rhomboidalis*, **Womersley & Audy** (5); *Tragardhula kwanacara* off *Nycticorax n. nycticorax*, **Chen & Hsu** (1); *Vercammenia hendricksoni* off *Rana macrodon*, **Audy & Nadchatram** (4); *Vatacarus ipoides* from sea-snake, *Laticauda laticaudata*, **Southcott** (5); *Ixodes reduvius* off *Lacerta agilis*, **Skinner**.

Parasitism: Invertebrate hosts.—*Alliphis evansi* off *Anomala transvaalensis*, off *Onitis* sp., off *Ontophagus gazella*, off *Oniticellus* sp., off *Onthophagus binodis*; *Alliphis halberti* off *Onitis* sp.; *Eviphis capensis* off *Scarabaeus bonelli*; *Eviphis hastatellus transvaalensis* off *Helicoprism hamadryas*; *Pelethiphis berlesei* off *Circellum bacchus*; *Pelethiphis eiseleni* off *Helicoprism gigas* and off *H. hamadryas*; *Pelethiphis geyeri* off *Copris elphanor*; *Pelethiphis vanedeni* off *Helicoprism hamadryas* also off *H. gigas*; *Scarabaspis africanus*, off *Pachylomora femoratus*, **Ryke & Meyer** (1); *Coprophis spinosus* off *Bubas bison* (*Coleop.*), **Lombardini**; *Caloglyphus lucani* off *Lucanus cervus*; *C. novaki* off *Geotrupes vernalis* v. *autumnalis*, **Samšiňák** (2); *Heaslipia gateri africana* off *Centropus grilli* (*Coleopt.*), **Vercammen-Grandjean & Audy** (4); *Neolobogynium lateriseta* off *Hololecta fossularis* (*Coleop.*), **Hicks**; *Myialges indica* off *Hippoboscidae*, *Pseudolynchia maura*, **Hiregaudar** (1); *Bonomia humprechtii*, *Acaropsis strofi*, and *Troupeauia laphriae* off fly, *Laphria flava*, **Samšiňák** (5); *Tetrathrombium macronychus* off *Tipulid*, *Ptychoptera* sp., **Feider & Suciú** (3); *Evansiella culicoides* off *Culicoides* spp. **Vercammen-Grandjean** (1); *Leptus phyllotretae*, *Teresothrombium mastigotarsum* and *T. susteri* off *Phyllotreta* spp. [*Hemiptera*], **Feider**; *Acotyledon tetramorii* with ants, *Tetramorium caespitum* and *Anergates atratulus*, **Samšiňák** (9); *Hypopi* of *Anoetinae* off

insects, Scheucher; Tyroglyphidae off insect hosts, Türk & Türk; *Unionicola formosus* and *U. wolcotti* off *Anodonta* spp., Mitchell (2); Acar. off insect hosts, Samšiňák (1).

Parasitism: Plant hosts.—*Aceria arundinis* off Arundo Donax: *A. boissieri* off Genista Boissieri: *A. cisticola* off Cistus laurifolius: *A. desertorum* off Suaeda fruticosa: *A. eupatorii* off Eupatorium cannabinum: *A. plantaginis* off Plantago subulata: *A. populinaceantis* off Populus canescens: *A. suffugiosa* off Santolina rosmarinifolia: *Anthocoptes rubicolens* off Rubus sp.: *Diptacus ilicis* off Ilex Aquifolium: *Epitrimerus bupleuri-spinosi* off Bupleurum spinosum: *Phyllocoptes nevadensis* off Euphorbia luteola: *Phytoptus dehesae* off Carex Goodenowii: *Rhyncaphytoptus aisasuensis* off Salix "aurita": *R. ulmicola* off Ulmus scabra: *Vasates cuneatus* off Cistus lauritilius: *V. hygrophilus* off Hypericum tetrapterum: *V. lepidii* off Lepidium stylatum: *V. querci-ilicis* off Quercus ilex: *V. rubiae* off Rubia peregrina: *V. variabilis* off Salix daphnoides, Roivainen; *Aceria litchii* on Litchi chinensis, Nishida & Holdaway; *Bryobia arborea* off apple leaves, Morgan & Anderson; *Dolichocybe keiseri* off Acer palmatum: *Siteroptes reniformis* off cotton boll, Krantz; *Eriophyes* sp. on sugarcane, Puttarudriah & Usman; *Eriophyes caricis* off Carex Goodenowii, Lehtola; *Lorryia off* citrus, Smirnov; *Metatetranychus ulmi* on beans, Fritzsche et al.; *Paratetranychus ununguis* on spruce, Brammans (1); *Penthaleus major* damaging grain, Pucci; *Phyllocoptes carinatus*, *P. theae* and *Eriophyes* sp. off tea, Chen, J.-t.; *Siteroptes graminum* off wheat, Sömermaa; *Tarsonemus pallidus* on cyclamen, Böhm (2); *Tetranychus telarius* damaging potatoes, Fulton; *Tetranychus telarius* on lemon, Martino; *Typhlodromus aceri* off maple, Acer campestre and off hazel, Corylus avellana: *T. scoticus* off Salix sp., Collyer; *Typhlodromus longilaterus* off Cynodon dactylon (Gramin.): *Typhlodromus ornatus* off Rubus ulmifolius, Athias-Henriot (1); *Typhlodromus (T.) aboreus* off apple leaves: *T. (T.) flumensis* off Shepherdia canadensis: *T. (T.) singularis* off Douglas fir, ponderosa pine, lodgepole pine, white pine, juniper, maple, *Thuya* sp., sumac, mock orange, black

cotton wood, willow, spruce: *T.(T.) validus* off ponderosa pine, black cotton wood, wild cherry: *T.(A.) andersoni* off prune foliage: *T.(A.) berlesei* off Ranunculus sp., birch: *T.(A.) desertus* off black cotton wood, willow: *T.(A.) morgani* off dandelion: *T.(A.) okanagensis* off peach foliage, "cover crop," apple leaves, burdock, Chant; List of hosts of *Tetranychus viennensis*, Müller, G. F. W.; Acar. on sugar beet, Zverezomb-Zubovskii; Gall mites of Netherlands, Docters van Leeuwen; Harmful phytophagous Acarina in Turkey, Düzgünes.

Acarina of medical importance.—*Tyroglyphus* and *Tarsonemus* in sputum of man, Liu et al.

Parasitism: Pentastomida.—*Armillifer pomeroyi* off *Naja haje*, off *Acrochodus granulatus*: *Armillifer armillatus* off *Hemiechinus auritus*: *Diesingia* sp. off *Engyurus carinatus*: *Kiricephalus pattoni* off *Ahaetulla calligaster*: *Megadrepanoides solomonensis* off *Varanus indicus*: *Megadrepanoides varani* off *Varanus indicus*: *Raillietiella affinis* off *Scincus officinalis*, off *Chalcides sepooides*, off *Agama stellio*, off *Eumeces schneiderii*, off *Uromastyx aegyptia*, off *Lepidodactylus lugubris*: *Raillietiella gehyrae* off *Agama stellio*: *Waddycephalus teretiusculus* off *Ahaetulla calligaster*, Self & Kuntz; In Resus sp., Boch; *Linguatula serrata* in hare, Lucas et al; *Linguatula serrata* from man, Papadakis & Hourmouziadis.

Symbiosis.—*Dinogamasus braunsi* off carpenter bee, Skaife.

Commensalism.—*Conopistha trigona* with *Allepiera lemniscata*, Lamore.

Phoresy.—*Withius caecus* on *Tinea biskraella* (Lepid.), Dufrane.

Host specificity.—Among parasites, Stammer (1).

Host preference.—*Trombicula mitamurae*, Asanuma et al. (8).

Host relationship.—*Neoschöngastia asakawai*, Asanuma & Takada (7).

Technique.—Culture of spiders, ticks and mites, Galtsoff et al.; Maintenance, breeding and development of *Phoneutria fera*, Tretzel; Examination of birds for nasal mites, Fain (8); Examination of tyroglyphid populations, Melville; Feeding of *Brevisterna utahensis*, Allred & Marchette (5); Rearing Trombiculids, Vercammen-Grandjean (2); Feeding

ticks, Řeháček; Breeding *Phyllocoptruta oleivora*, Swirski & Amitai (1); Collecting mites from birds, Beer & Cook; Collecting, culture and feeding *Trombicula autumnalis*, Minter; Collecting and breeding *Ornithodoros papillipes*, Kusov; Collecting soil Acarina, Macfadyen; Extracting arthropods by suction, Johnson et al.

Behaviour. — Aganippini spiders, Main & (1); *Chaetodactylus* spp., Lith; *Brevisterna utahensis*, Allred, D. M. (4); Unengorged larval Trombiculids, Sasa et al. (6); *Trombicula deliensis*, Yu et al.

Transmission of disease, Acarina excl. Ixod. — *Aceria tulipae* vector of wheat streak-mosaic virus, Connin & Staples; *Aceria tulipae* vector of wheat streak mosaic, Gibson & Painter; *Bdellonyssus bacoti* and typhus antibodies, Smith W. M.; *Dermanyssus gallinae*, *Ornithonyssus bursa*, *O. sylvarium* with studies on St. Louis encephalitis, Chamberlain et al.; *Trombidiosis* by *Trombicula autumnalis*, Daniel (1); *Tyroglyphus noxius* carrier of microsporid, Nosema steinhausi, Weiser.

Transmission of disease: Ixodoidea. — Rickettsia prowazeki isolated from *Amblyomma variegatum* and *Hyalomma rufipes*, Reiss-Gutfreund; *Boophilus calcaratus* vector of haemosporidiosis, Vecherkin & Esikov; *Dermacentor andersoni* and *D. variabilis* vectors of Rocky Mt. spotted fever, Cawley & Wheeler; *Dermacentor parumapertus*, Allred et al. (7); Rickettsia-like bodies in *Hyalomma savignyi*, Dasgupta & Ray (2); *Ornithodoros erraticus*, Colas-Belcour & Vervent; *Ornithodoros lahorensis* and tick paralysis of sheep, Kusov (1); *Borrelia persica* transmitted by *Ornithodoros moubata*, Davis & Hoogstraal; *Ornithodoros moubata* and relapsing fever, Walton; Plague by *Ornithodoros tartakovskyi*, Burlatsenko; *Ornithodoros turicata* reservoir of rabies virus, Reagan et al.; Rôle of Ixod. in disease, Grebenok et al.; Relationship to disease of Ixod. in U.S.S.R., Anastos.

Control: Acarina: excl. Tetranychidae and Ixodoidea. — *Acarus siro*, Boczek; *Aceria sheldoni*, Hely; *Aceria sheldoni*, Martino (1); Repellent against *Bdellonyssus bacoti*, Belozerov; *Brevipalpus lewisi*, Elmer & Jeppson; *Eriophyes pyri*, Lanchester; *Eriophyes pyri*, Minder; Eriophyidae, Russo; *Halotydeus destructor* and *Penthaleus*

major, Wright; *Hemitarsonemus latus*, Hooper; *Myobia musculi*, Marian; *Mycopales musculinus*, Davis; *Psorergates simplex*, Cook; *Rhynacus gigantorhynchus* and *Vasates fockeui*, Anthon; *Steneotarsonemus pallidus*, Allen et al.; *Trombiculids*, Keller & Gouck; *Vasates lycopersici*, Smith & Saunders; Itch mites of sheep, Galuzo (2).

Control: Tetranychidae. — *Anychus orientalis*, Swirski; *Bryobia praetiosa*, English & Snetsinger; *Bryobia arborea* and *B. praetiosa*, Downing; *Bryobia praetiosa*, Silveira Guido & Carbonell Bruhm; *Eutetranychus banksi*, Klapperich; *Metatetranychus citri*, Spencer & Selhime; *Metatetranychus ulmi*, Fjeld-dalen & Stenseth; *Metatetranychus ulmi*, Madsen & Hoyt (1); *Metatetranychus ulmi*, Mathys (2); *Metatetranychus ulmi*, Massee & Austin; *Metatetranychus ulmi*, Shea; *Paratetranychus pratinus*, Malcolm; *Paratetranychus ununguis*, Brammis & (1); *Petrobia latens*, Chen, Y.-f.; *Tetranychus telarius*, Singh & Saini; *Tetranychus telarius*, Latif & Muhammad; *Tetranychus telarius*, Martino; *Tetranychus telarius*, Meltzer; *Tetranychus viennensis*, Müller, G. F. W.; *Tetranychus telarius* and *Hemitarsonemus latus*, Sherman & Tamashiro; Tetranychids on apples and pears, Madsen & Borden; Tetranychids on almonds and peaches, Summers; Tetranychids on lima beans, Wilcox & Howland; Tetranychids, Russo.

Control: Ixodoidea. — *Amblyomma americanum*, Hunter et al.; *Amblyomma americanum*, Lancaster (1); *Ixodes persulcatus*, Gadalin et al.; *Boophilus microplus*, Stone; *Argas persicus*, Rodriguez & Riehl; *Boophilus microplus*, Snowball; Lone star tick, Lancaster; Ixodidae, Blagoveshtchesky.

DISTRIBUTION PALAEARCTIC REGION

Europe. — Acar., Dosse (3).

Iceland. — Acar., Forsslund.

Great Britain. — Pantop., Pseudoscorp., Acar., Bassindale & Barrett; Pantop., Pseudoscorp., Acar., Mar. Biol. Assoc. U.K.; Pseudoscorp., Vachon; Pseudoscorp., Opil., George (1); Aran., George; Opil., Aran., Eggeling; Opil., Roewer (2); Aran., Blest; Aran., Duffey; Aran., Locket & Millidge (1); Aran., Morris; Aran., Peake; Aran., Sage; Pseudoscorp., Opil., Aran., Savory

& Le Gros; Aran., Whatnough; Acar., Collyer; Acar., Evans (2); Acar., Leatherdale; Acar., Sheals; Acar., Ver-
cammen-Grandjean (1); Ixod., Thomp-
son & (1); Tardig., Le Gros; Fair Id.,
Opil., Aran., Acar., Cloudsley-Thompson.

Ireland.—Acar., Stelfox.

France.—Palpig., Condé; Opil., Roe-
wer (2); Aran., Bigot (1); Aran., Denis
(2); Aran., Dresco; Aran., Tambs-
Lyche; Acar., Grandjean (4); Acar.,
Schuster (1); Acar., Travé; Acar.,
Türk & Türk; Ixod., Euzeby; Ixod.,
Roman & Sicart; Hydrach., Aguesse;
Hydrach., Angelier; Hydrach., Lund-
blad.

Luxembourg.—Aran., Muller.

Netherlands.—Opil., Spoek; Aran.,
Chrysanthus; Acar., Docters van Leeu-
wen; Hydrach., Besseling (2).

Denmark.—Acar., Haarlov; Acar.,
Hughes (1).

Sweden.—Aran., Kauri; Acar., Fors-
slund (1); Acar., Sellnick (1) (3).

Finland.—Aran., Hackman (1) (2);
Aran., Millidge; Acar., Karppinen; Acar.,
Lehtola.

Latvia, Acar., Lapin.

Portugal.—Acar., Neves & Graça;
Hydrach., Lundblad.

Spain.—Acar., Grandjean (6); Acar.,
Knüll; Acar., Mihelčić (1) (2) (3) (4);
Acar., Roivainen; Acar., Travé; Hy-
drach., Lundblad.

Italy.—Scorp., Marcuzzi & Fabris;
Aran., Barajon; Aran., Kritscher (1);
Acar., Filipponi & Cervone; Acar.,
Filipponi & Seganti (1); Acar., Lom-
bardini; Acar., Starkoff (1); Ixod.,
Starkoff & (3) (4) (5); Hydrach.,
Parenzan.

Switzerland.—Aran., Stäger; Acar.,
Mathys; Acar., Schweizer; Hydrach.,
Bader; Hydrach., Lundblad; Hydrach.,
Schwoerbel (1).

Germany.—Acar., Pentast., Tardig.,
Crome (2); Opil., Roewer (2); Acar.,
Baring (1); Aran., Billaudelle; Aran.,
Braun; Acar., Dosse (7); Acar., Knüll
& (1); Acar., Ritschl; Acar., Samšiňák
(7); Acar., Scheucher; Acar., Türk &
Türk; Acar., Willmann; Acar., Will-
mann in Strenzke (3); Hydrach.,
Ehrenberg; Hydrach., Schwoerbel; Hy-
drach., Viets, K. O.

Austria.—Scorp., Palpig., Strouhal;
Pseudoscorp., Beier (3); Aran., Kritscher
& Strouhal (2); Acar., Kepka; Acar.,
Mihelčić (5); Acar., Samšiňák (1);
Hydrach., Lundblad.

Hungary.—Opil., Aran., Acar.,
Beretzk et al.; Acar., Kobulej (1);
Hydrach., Motas et al.; Hydrach.,
Szalay; Tardig., Gyula.

Yugoslavia.—Acar., Djurkić (1);
Ixod., Petrovitch & Simitch; Hydrach.,
Besseling (1); Hydrach., Georgievski.

Czechoslovakia.—Pseudoscorp., Aran.,
Acar., Nosek; Aran., Wolska; Acari,
Beran et al.; Acar., Daniel & (1), (2), (3);
Acar., Kunst; Acar., Nosek (1); Acar.,
Samšiňák (2), (3), (4), (5), (9); Acar.,
Winkler & (3); Acar., Zapletal; Ixod.,
Černý (1); Ixod., Černý & Balát (2);
Hydrach., Láska & (1).

Poland.—Ixod., Lachmajer.

Rumania.—Acar., Feider & (1), (2);
Acar., Feider & Suciu (3); Tardig.,
Péterfi.

Greece.—Opil., Roewer (2).

U.S.S.R.—Acar., Bulanova-Zakhvat-
kina (1), (2); Acar., Dubinin & Snegi-
reva (3); Acar., Milan; Acar., Razumova;
Acar., Schluger; Acar., Schulman;
Acar., Visoshkaya & Bregetova; Ixod.,
Anastos; Ixod., Dzhaparidze; Ixod.,
Galuzo (1); Ixod., Grebenyuk; Ixod.,
Kapustin; Ixod., Shustrov; Ixod., Shil-
ova & Krylov.

Azerbaijan.—Ixod., Pospelova-
Shtrom & Abusalimov; Acar., Zachvat-
kin.

Armenia.—Acar., Bagdasaryan &
(1), (2), (3); Acar., Rekk & Bagdasaryan
(4), (5).

Belorussia, SSR.—Acar., Buligina.

Caucasus.—Aran., Charitonov; Acar.,
Beglarov; Ixod., Kalita & Pelipeichenko.

Crimea.—Ixod., Emchuk; Ixod.,
Vshivkov & Filippova.

Delta of Danube and Volga.—Acar.,
Dubinin (2).

Georgia SSR.—Aran., Mkheidze; Acar.,
Chalilova; Acar., Rekk & (1), (2), (3).

Kazakhstan.—Acar., Vainshstein;
Acar., Zemskaya & Piontkovskaya;
Ixod., Tsleshcheva.

Siberia.—Opil., Suzuki (2).

Tadzhikistan.—Acar., Schluger.

Turkmenia.—Acar., Schluger & Myshchenko (1).

Kuril Is.—Opil., Suzuki (2).

Isle of Lampedusa.—Solif., Zavatari; Acar., Lombardini.

Sicily.—Ixod., Starkoff (2).

Crete.—Pseudoscorp., Beier (1); Opil, Roewer (2).

Cyprus.—Opil., Roewer (2).

Algerian Sahara.—Hydrach., Viets, K. O. (2).

Algeria.—Acar., Athias-Henriot & (1); Hydrach., Viets, K. O. (1).

Morocco.—Palpig., Remy (5); Solif., Panouse; Opil., Roewer (2); Acar., Perret & (1), (2); Acar., Smirnoff & (1).

Egypt.—Ixod., Arthur (2); Ixod., Hoogstraal & Kaiser (2), (3); Ixod., Hoogstraal et al. (4); Pentast., Self & Kuntz.

China.—Opil., Roewer (2); Opil., Wang, F.-c.; Aran., Kritscher; Acar., Chen, J.-t.; Acar., Chen & Hsu & (1); Acar., Hsu & Chen; Acar., Hsu & Wen & (1); Acar., Jeu; Acar., Jeu & Wen (2); Acar., Liang et al.; Acar., Tung; Ixod., Arthur (3); Ixod., Pentast., Jeu (1).

Hong Kong.—Acar., Womersley (2).

Korea.—Opil., Charitonov (1); Opil., Roewer (2); Aran., Paik; Acar., Farrier; Roewer (2); Aran., Paik; Acar., Farrier; Acar., Tibbetts & Strandtmann (2); Ixod., Arthur (3); Ixod., U.S. Army 406 Med. Gen. Lab.

Manchuria.—Opil., Suzuki (1).

Mongolia.—Ixod., Filippova (1).

Japan.—Pseudoscorp., Opil., Aran., Acar., Morikawa (1); Pseudoscorp., Morikawa (2); Opil., Miyosi; Opil., Roewer (2); Opil., Suzuki; Aran., Komatsu; Aran., Kritscher; Aran., Oi; Aran., Uyemura; Aran., Yaginuma & (1); Acar., Asahina & Tada; Acar., Asanuma & (2); Acar., Asanuma et al. (3); Acar., Fujisaki; Acar., Fujita et al.; Acar., Kamo; Acar., Kamo et al. (2); Acar., Kugoh; Acar., Sasa (1); Acar., Sasa & Miura (3); Acar., Sasa & Shigai (5); Acar., Sasa et al. (2) (7); Acar., Yamaguchi; Ixod., Asanuma & Kōsaka (4); Ixod., Asanuma et al. (5), (6); Ixod., U.S. Army 406 Med. Gen. Lab.; Hydrach., Imamura & (1), (2).

Ryukyu Is.—Ixod., U.S. Army 406 Med. Gen. Lab.

Asiatic Russia.—Acar., Bulanova-Zakhvatkina (2).

Kuril Is.—Acar., Bulanova-Zachvatkina & (2).

Turkey.—Pseudoscorp., Beier (4); Opil., Roewer (2); Acar., Düzgünes; Ixod., Arthur (3).

Israel.—Aran., Kritscher; Acar., Gratz; Acar., Radford; Acar., Shulov.

Cape Verde Is.—Pseudoscorp., Vachon (3).

ORIENTAL REGION

Oriental Region.—Acar., Audy.

India.—Acar., Audy & Womersley (6); Acar., Hiregauder & (1), (2); Acar., Hiregaudar & Bal. (3); Acar., Puttarudriah & Usman; Acar., Rammohan Rao & Hiregaudar & (1); Acar., Traub & Morrow (1).

Pakistan.—Ixod., Abdussalam & Shaikh; Ixod., Field; Acar., Latif & Muhammad.

Himalayas.—Opil., Roewer (2).

Nepal.—Acar., Evans.

Manipur State.—Acar., Audy & Nadehatram (5).

Burma.—Opil., Roewer (2); Acar., Traub & Evans.

Malaya.—Acar., Audy & Nadehatram (4), (5); Acar., Audy & Womersley (6); Acar., Domrow (1), (2); Acar., Harrison; Ixod., Kohls (2); Acar., Traub & Evans; Acar., Traub & Morrow (1); Acar., Womersley (1).

Thailand.—Acar., Traub & Evans; Acar., Traub & Morrow.

Borneo.—Acar., Domrow (1); Ixod., Kohls (2); Acar., Traub & Evans; Acar., Traub & Morrow (1); Hydrach., Viets, K.

Celebes.—Acar., Womersley & Audy (5).

Dutch East Indies.—Aran., Kritscher.

Formosa.—Opil., Roewer (2); Ixod., Sugimoto.

Java.—Aran., Kritscher; Ixod., Kraneveld & Keidel.

Sarawak.—Acar., Traub & Evans.

South Viet Nam.—Ixod., Toumanoff & Maillard.

Sumatra.—Opil., Roewer (2); Aran., Kritscher.

Philippine Is.—Aran., Kritscher; Acar., Womersley (3).

ETHIOPIAN REGION

Africa.—Ixod., Hoogstraal (1).

Ashanti.—Ixod., Arthur & Burrow (7).

Cameroons.—Aran., Kraus (4); Acar., Gaud; Acar., Gaud & Mouchet (2); Acar., Taufflieb & Mouchet (1), (3); Acar., Gaud & Till (4); Ixod., Arthur (6).

Dahomey.—Ixod., Morel.

Fernando Po.—Acar., Michelčič (1).

French Equatorial Africa.—Acar., Abonnenc & Taufflieb & (1).

Gabon.—Aran., Comellini.

Gambia.—Acar., Taufflieb & Abonnenc.

Ivory Coast.—Ixod., Arthur.

Senegal.—Ixod., Morel.

Angola.—Opil., Lawrence; Acar., Vercammen-Grandjean (3), (4).

South West Africa.—Aran., Kraus (4); Acar., Sellnick (2).

South Africa.—Acar., Till (2).

Bechuanaland.—Acar., Fain (2), (7); Acar., Till.

Cape Province.—Acar., Evans (1); Acar., Ryke & Meyer (1); Acar., Till.

Natal.—Palpig., Remy (2); Aran., Comellini; Acar., Evans (1); Acar., Till.

Rhodesia.—Acar., Ryke & Meyer (1); Acar., Till (1).

Transvaal.—Aran., Comellini; Acar., Ryke; Acar., Ryke & Meyer (1); Acar., Till.

Abyssinia.—Opil., Roewer; Aran., Comellini.

Erythrea.—Aran., Kritscher.

Somaliland.—Ambly., Sertorio; Ixod., Lipparoni; Ixod., Walker; Tardig., Franceschi.

Sudan.—Aran., Denis; Acar., Vercammen-Grandjean & Brennan (5); Pentast., Self & Kuntz.

East Africa.—Opil., Roewer (2); Aran., Comellini.

Belgian Congo.—Aran., Comellini; Aran., Kraus (4); Aran., Schmidt (3); Acar., André; Acar., Fain (1), (3), (5), (6), (7), (8); Acar., Vercammen-Grandjean & (3); Acar., Vercammen-Grandjean & Audy (4); Acar., Vercammen-Grandjean & Fain (6), (7); Ixod., Arthur & Burrow (7).

Ruanda-Urundi.—Acar., Fain & (8); Acar., Vercammen - Grandjean & Fain (6).

Kenya.—Acar., Vercammen-Grandjean & Brennan (5); Ixod., Arthur & Burrow (7); Ixod., Walker.

Uganda.—Acar., Radford; Acar., Vercammen-Grandjean & Brennan (5).

Tanganyika.—Pseudoscorp., Beier; Ixod., Walker.

Portuguese East Africa. — Aran., Kraus (4).

Mozambique.—Opil., Lawrence (1); Aran., Comellini; Acar., Till (1); Ixod., Dias.

Madagascar.—Aran., Comellini; Aran., Minet & (1); Acar., Gretillat; Acar., Tipton; Acar., Gaud & Till (4); Ixod., Arthur (1), (6).

AUSTRALIAN REGION AND POLYNESIA

Australasian Region.—Acar., Audy.

Bismarck Archipelago.—Acar., Womersley & Audy (5).

Indonesia.—Pentast., Seidel.

New Guinea.—Acar., Womersley (3).

Australia.—Aran., Musgrave.

Queensland.—Acar., Newton & O'Sullivan; Acar., Southcott & (3), (4); Acar., Womersley & Audy (5); Ixod., Legg et al. (1); Ixod., Mulhearn; Ixod., Snowball (1).

Victoria.—Acar., Audy & Womersley (6).

New South Wales.—Aran., Kritscher.

South Australia.—Acar., Southcott (1); Acar., Womersley (3), (4).

Western Australia.—Aran., Main & (1), (2).

Great Barrier Reef.—Acar., Domrow.

Tasmania.—Opil., Hickman.

New Zealand.—Aran., Forster; Acar., Evans (1); Acar., Whitten & Elliott.

Caroline Is.—Pseudoscorp., Beier (2); Opil., Goodnight & Goodnight; Hydrach., Cook.

Cook Is.—Aran., Marples.

Fiji Is.—Aran., Marples.

Guam.—Acar., Sengbusch.

Hawaii.—Acar., Boyle & Haramoto (1); Acar., Newell (1).

New Caledonia.—Acar., Southcott (2), (5).

Mariana Is.—Pseudoscorp., Beier (2); Opil., Goodnight & Goodnight.

Marshall Is.—Pseudoscorp., Beier (2).

Micronesia.—Scorp., Chapin; Pseudoscorp., Beier (2); Opil., Goodnight & Goodnight; Ixod., Kohls.

Samoa.—Aran., Marples.

Society Is.—Aran., Marples.

Solomon Is.—Pentast., Self & Kuntz.

NEARCTIC REGION

Alaska.—Acar., Summers (1).

Canada.—Aran., Pengelly.

British Columbia.—Acar., Chant; Arac., Morgan & Anderson.

Baffin Id.—Hydrach., Habeeb (1).

New Brunswick.—Hydrach., Habeeb & (2).

Newfoundland.—Opil., Hackman.

Nova Scotia.—Aran., Dondale.

North America.—Aran., Levi (1).

Arizona.—Scorp., Stahnke; Aran., Levi.

California.—Uropyg., McDonald & Hogue; Aran., Levi & (3); Arac., Cunliffe (1); Arac., Furman; Arac., Jameson & Brennan; Arac., Krantz; Arac., Newell; Arac., Schuster; Arac., Summers (2); Ixod., Lee.

Colorado.—Aran., Levi.

Florida.—Aran., Levi & (3); Arac., Chant (1); Arac., De Leon (1).

Illinois.—Acar., Hanson et al.

Indiana.—Acar., Wilson.

Iowa.—Acar., Hicks.

Louisiana.—Aran., Roddy.

Michigan.—Ixod., Hays & Lawrence.

Maryland.—Aran., Lamore; Arac., Drummond & (1); Tardig., Curtin.

Massachusetts.—Acar., Chant (1).

Nevada.—Acar., Higgins & Mulaik (1).

New Jersey.—Hydrach., Habeeb (2); Ixod., Hansens & Merrill.

New Hampshire.—Ixod., Bickle & Conklin.

North Carolina.—Aran., Levi (3); Arac., Farrier.

Oklahoma.—Acar., Cunliffe.

Oregon.—Acar., Higgins & Mulaik; Arac., Newell.

Pennsylvania.—Aran., Levi (3).

Texas.—Opil., Roewer (2); Aran., Levi; Arac., Beer & Lang (1); Arac., Dean; Arac., Menzies; Arac., Tibbets.

Utah.—Aran., Levi; Arac., Allred & (2), (3); Arac., Allred & Roscoe (6); Arac., Howell et al.

Virginia.—Acar., Sengbusch (1).

Washington.—Aran., Levi; Arac., Newell.

West Virginia.—Acar., Chant (1).

Wisconsin.—Tardig., Ramazzotti.

CENTRAL AMERICA

Central America.—Aran., Buecherl; Aran., Levi (1).

Costa Rica.—Aran., Chickering (1); Aran., Kritscher.

Guatemala.—Opil., Roewer (2).

Jamaica.—Aran., Chickering (2).

Martinique.—Acar., Grandjean (6).

Mexico.—Aran., Levi (1); Arac., De Leon; Arac., Narayan (1); Ixod., Barrera.

Panama.—Aran., Chickering & (3); (4); Aran., Levi, (2).

Puerto Rico.—Acar., Fox.

Trinidad.—Acar., Tibbets (1); Ixod., Kohls (1).

West Indies.—Aran., Levi (1).

SOUTH AMERICA

South America.—Aran., Buecherl.

Amazons.—Aran., Kritscher.

Argentina.—Opil., Ringuelet (1), (2); Aran., Lagiglia; Arac., Bacigalupo & Roveda; Arac., Grandjean (5).

Bolivia.—Aran., Zapfe.

Brazil.—Aran., Bücherl (1); Aran., Kraus (4); Aran., Levi, (2).

Colombia.—Uropy., Kraus (5).

Ecuador.—Aran., Levi (2).

French Guiana.—Acar., Floch & Fauran.

Paraguay.—Aran., Kritscher.

Peru.—Pedip., Solif., Opil., Roewer (1); Aran., González; Aran., Levi (2); Arac., Brennan.

Uruguay.—Opil., Ringuelet; Arac., Cristi; Arac., Rodriguez Gonzalez & Tramontano.

Venezuela.—Scorp., Boyer.

Tierra del Fuego.—Tardig., Ramazzotti.

GEOLOGICAL

Tertiary.—Aran., from Victoria, Hickman (1); Acar., from Victoria, Womersley.

Eocene.—Opil., Germany, Haupt (1).

Permian.—*Rhabdotarachnoides simoni* (Opil.) from Red sandstone, Haupt.

Lower Permian.—Aran., Thüringen, Müller, A. H.

Upper Carboniferous.—*Architarbus mayasi*, Germany, Nindel.

MARINE

Portugal.—Pantop., Nogueira.

Japan.—Pantop., Stock (2).

Red Sea.—Pantop., Stock (1).

South Africa.—Pantop., Stock (2).

New Zealand.—Pantop., Clark.

Venezuela.—Pantop., Stock (2).

South Georgia.—Pantop., Stock (2).

Antarctic.—Pantop., Stock.

MYRIAPODA

GENERAL LITERATURE

Nomenclature.—*Scolopendra morsitans* type of genus, Opinion 454.

Collections.—Symph. in Amsterdam Museum, Jupeau; Revision of J. Daday's Diplop., Loska.

STRUCTURE

External anatomy.—*Polyxenus lagurus*, Manton.

Integument.—Larval and post-larval mesoderm of Myriop., Dawyoff; *Scolopendra* and *Thyroglobulus*, Lal & Srivastava.

Muscles.—*Polyxenus lagurus*, Manton.

Alimentary system.—Mucous segment in malpighian tubes of Symph., Juberthie-Jupeau.

Reproductive system.—*Scolopendra morsitans*, Jangi.

Special structures.—Golgi bodies in Chilop. and Diplop., Nath; Golgi bodies in spermatocytes of *Rhysida longipes*, Nath & Gupta (1).

Teratology.—*Scolopendra* sp., La Greca.

PHYSIOLOGY

Circulation.—Coagulation of blood of Chilop., Diplop., Grégoire & Jolivet.

Longevity.—*Iulus scandinavicus*, *Cylindroiulus silvarum*, *Schizophyllum sabulosum*, Barlow.

Venom.—Effects of centipede bites, Haneveld.

Locomotion.—*Lithobius forficatus* and *Julus terrestris*, Johnson; *Polyxenus*, Manton.

Luminous phenomena.—Luminescence of *Luminodesmus sequoiae* (Diplop.), Hastings & Davenport.

DEVELOPMENT

Egg: Oogenesis.—Chilop., Nath; *Thyroglobulus* sp., Sharma & Chhotani.

Spermatogenesis.—*Scolopendra cingulata*, Klingel; Chilop., Diplop., Nath; *Rhysida longipes*, Nath & Gupta (1); *Polyxenus lucidus* and *P. lagurus*, Tuzet & Manier; *Spirostreptus castaneus*, *S. ibanda*, *S. virgator*, *S. fosculatus*, *Scaphiostreptus acuticonus*, *Scaph. sjostedi* *Haplothysanus emini* *Prionopetalum megalacanthum*, *Brachy-spirobolus* sp., Tuzet & Manier (1).

Teratology.—*Scolopendra* sp., La Greca.

EVOLUTION

Chromosome problems.—*Otocryptops* sp., Ogawa.

ECOLOGY AND HABITS

Biology.—*Proteroiulus fuscus*, Pocker.

Ecology.—Chilop. as indicator, Ghilarov & Folkmanova; Chilop. and Diplop. in moss and lichen, Pschorr-Walcher & Gunhold.

Ecological association.—Chilop., Diplop., Symph., Pauropt., associated with carrion, Bornemissa.

Ecological associations: cavernicolous.—Chilop., Diplop., Barajon; *Oroposomaticinense* and *Polydesmus (Soleureus) rothi*, Manfredi (1); *Lithobius peregrinus picea*, *Lithobius peregrinus serbica*, *Harpolithobius anodus dentatus*, Matic.

Distribution.—*Iulus scandinavicus*, *Cylindroiulus silvarum*, *Schizophyllum sabulosum*, Barlow.

Feeding habits.—*Iulus scandinavicus*, *Cylindroiulus silvarum*, *Schizophyllum sabulosum*, Barlow; *Scolioplanes maritimus*, Blower (1); *Glomeris hexasticha*

and *Chromatojulus projectus*, part played in decomposing forest-litter floor, **Gere**; Feeding biology and humificative function of Diplop., **Gere** (1); Millipedes and soil-forming processes, **Gilyarov**; Diplop., attacking sugar beet, **Zverezomb-Zubovskii**.

Breeding habits.—*Habrodesmus massai nyassae*, **Fryer**.

Seasonal activity.—*Iulus scandinavius* *Cylindroiulus silvarum*, *Schizophyllum sabulosum*, **Barlow**.

Massing.—*Orthomorpha gracilis* in greenhouse, **Borg**.

Swarming.—*Habrodesmus massai nyassae*, **Fryer**.

Enemies.—Nematodes parasites of *Neptunobolus hogei* (Diplop.), **Ruiz & Coelho**.

Technique.—Culture of millepedes, **Galtsoff et al.**

DISTRIBUTION PALAEARCTIC REGION

Great Britain.—*Chilop.*, **Bassindale & Barrett**; *Diplop.*, **Blower**; *Chilop.*, **Eason**; *Chilop.*, *Diplop.*, **Eason** (1).

Sarre.—*Diplop.*, **Sahli**.

Belgium.—*Diplop.*, **De Queker**.

Netherlands.—*Diplop.*, **Barlow**.

Denmark.—*Symp.*, **Pauprop.**, **Haarlev**; *Chilop.*, *Diplop.*, **Lohmander**.

Luxemburg.—*Diplop.*, **Pocker**.

Italy.—*Chilop.*, *Diplop.*, **Barajon**.

Switzerland.—*Diplop.*, **Manfredi** (1); **Pauprop.**, **Remy** (7).

Germany.—*Chilop.*, *Diplop.*, **Crome** (2); *Diplop.*, **Schubart** (1).

Yugoslavia.—*Chilop.*, **Matic**.

Hungary.—*Diplop.*, **Loska**.

Czechoslovakia.—*Chilop.*, **Dobroruka** & (2); *Chilop.*, *Symp.*, **Dobroruka** (1); *Chilop.*, *Diplop.*, **Nosek**.

U.S.S.R..—*Chilop.*, **Ghilarov & Folkmanova** & (1); *Diplop.*, **Gilyarov**.

Lampedusa.—*Chilop.*, **Manfredi**.

Japan.—*Chilop.*, *Diplop.*, **Miyoshi** (1), (3); *Diplop.*, **Miyoshi**, (2), (4), (5); *Chilop.*, *Diplop.*, *Symp.*, **Morikawa** (1); *Chilop.*, **Shinohara** & (1); *Diplop.*, **Takashima** & **Shinohara**.

Taiwan Islands.—*Chilop.*, *Diplop.*, **Wang, Y. M.**

ORIENTAL REGION

Ceylon.—*Symp.*, **Fernando**.

Sumatra.—*Diplop.*, **Jeekel**.

AUSTRALIAN REGION AND POLYNESIA

New Guinea.—*Symp.*, **Jupeau**.

Western Australia.—*Pauprop.*, **Remy** (3).

New Zealand.—*Symp.*, **Adam & Burtel**.

Mariana Is..—*Pauprop.*, **Remy** (6).

New Caledonia.—*Pauprop.*, **Remy** (1).

Micronesia.—*Pauprop.*, **Remy** (6).

ETHIOPIAN REGION

French Equatorial Africa.—*Diplop.*, **Demange** & (3).

French Guinea.—*Diplop.*, **Demange** (4).

Ivory Coast.—*Diplop.*, **Demange** (1), (2); *Pauprop.*, **Remy**.

Nyasaland.—*Diplop.*, **Fryer**; *Diplop.*, **Turk, F. A.**

Belgian Congo.—*Chilop.*, **Kraus** (1); *Chilop.*, *Diplop.*, **Kraus** (2).

Natal.—*Pauprop.*, **Remy** (2).

NEARCTIC REGION

Ontario.—*Diplop.*, **Judd**.

Florida.—*Diplop.*, **Causey** (2).

North Carolina.—*Diplop.*, **Causey**; *Pauprop.*, **Remy** (8).

Tennessee.—*Pauprop.*, **Remy** (8).

Virginia.—*Chilop.*, **Crabill** (1).

CENTRAL AMERICA

Mexico.—*Diplop.*, **Causey**; *Pauprop.*, **Remy** (4).

SOUTH AMERICA

Bolivia.—*Diplop.*, **Chamberlin**.

Brazil.—*Diplop.*, **Schubart**.

Chile.—*Diplop.*, **Chamberlin**.

Colombia.—*Chilop.*, **Chamberlin** (2), (3).

Ecuador.—*Chilop.*, **Chamberlin** (2), (3).

Peru.—*Chilop.*, **Chamberlin** (1), (2), (3); *Diplop.*, **Chamberlin**; *Diplop.*, **Kraus** (3); *Chilop.*, **Kraus** (6).

GEOLOGICAL

Eocene.—Diplop., Germany, Haupt (1).

Tertiary.—Diplop. from Victoria, Tiegs.

ONYCHOPHORA

STRUCTURE

Special structures.—Nephridies of Onych., Gabe.

PHYSIOLOGY

Effect of light, humidity, temperature, etc.—*Peripatopsis* and *Opisthopatus*, Brinck.

ECOLOGY AND HABITS

Distribution.—General and South African, Brinck.

Behaviour.—Catching prey, defence, effect of slime, diurnal rhythm, Alexander.

DISTRIBUTION

South Africa.—Onych., Alexander; Brinck.

III. SYSTEMATIC INDEX

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†BECKWITHIDA order. nov. to hold *Beckwithia* p. 175, Raw.

†*Euproops thompsoni* redescribed p. 598 figs., Copeland.

EURYPTERIDA

†*Pterygotus (Acutiramus) suwanneensis* sp. nov. Upper Silurian black shale, Columbia Co., Florida, p. 296 fig.; Kjellesvig-Waering, †*P. (A.) floweri* sp. nov. Silurian, middle Vernon shale, Oneida Co., New York p. 1046 fig.; †*P. (P.) waylandsmithi* sp. nov. Silurian, middle Vernon shale, Oneida Co., New York p. 1044 fig., Kjellesvig-Waering & Caster (1).

PANTOPODA

Faunal list.—Portugal, Nogueira.

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Ascorhynchus castellioides sp. nov. ♂ Puerto Cabello, Venezuela p. 82 fig.; *A. simile* ♀ p. 81 fig., Stock (2).

Austrodecus calcaricauda sp. nov. ♂ ♀ 50° 50' S.-56° 58' p. 34 fig.; *A. curtipes* sp. nov. ♂ ♀ Port Stanley, East Falkland Is. p. 36 fig.; *A. confusum* sp. nov. ♀ Three Kings, North of New Zealand p. 69 fig.; *A. elegans* sp. nov. ♀ 46° 48' 4" S.-37° 49' 2" E p. 68 figs.; *A. fagei* sp. nov. ♂ ♀ Cap Margerie, Terre Adelie p. 39 figs.; *A. glabrum* sp. nov. ♀ Cumberland Bay, South Georgia p. 42 figs.; *A. goughense* sp. nov. ♂ Gough Id. p. 63 fig.; *A. longispinum* sp. nov. ♂ ♀ 49° 50' S.-69° 33' E p. 50 figs.; *A. profundum* sp. nov. ♂ 65° 56' S.-54° 35' W p. 52 fig.; *A. simulans* sp. nov. ♂ ♀ 49° 50' S.-69° 33' E p. 54 figs.; *A. sinuatum* sp. nov. ♂ Masked Id., Auckland Is. p. 56 fig.; *A. tubiferum* sp. nov. ♂ Okinose, Sagami Sea p. 75 fig.; *A. breviceps* p. 59 figs.; *A. frigorifugum* p. 72 fig.; *A. glaciale* p. 45 figs.; *A. gordonaiae* p. 73 figs.; *A. tristanense* p. 66 figs.; key to species p. 30. Stock.

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Nymphon foxi p. 86 fig. Stock (2).

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Pycnogonum anovigerum sp. nov. ♀ ♂ Menzies Bay, New Zealand p. 171 figs., Clark.

Rhopalorhynchus pedunculatum sp. nov. ♂ Suez p. 13 fig., Stock (1).

Scipiolus validus sp. nov. ♀ Uraga Kaikj, Tokyo Bay p. 91 figs.; *S. plumosus* p. 91 fig. Stock (2).

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PSEUDOSCORPIONES

Keys to genera and species of Germany with figures. Crome (2).

Key to British species p. 394; remarks on taxonomic characters p. 389, Vachon.

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Garypus ornatus sp. nov. ♀ Bikini, Marshall Is. p. 20 fig., Beier (2).

Geogarypus (G.) javanus formosanus ♂. ♀ p. 21 figs.; *G. (Indogarypus subgen. nov.) palauanus* sp. nov. ♂. ♀ Palau, Western Caroline Is. p. 25 fig., Beier (2).

Gressitochernes subgen. nov. see *Smeringochernes*, Beier (2).

Haplochernes boninensis sp. nov. ♂ Chichi Jima, Bonin Is. p. 36 fig.; *H. kraepelini* ♂ p. 33 fig.; *H. insulanus* sp. nov. ♂. ♀ Saipan, S. Mariana Is.; Palau; Yap; Truk; Ponape; Kusaic; Marshall Is., Micronesia p. 34 figs., Beier (2).

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Indogarypus subgen. nov. see *Geogarypus* Beier (2).

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♂ ♀ Ponape: Kusaie, Eastern Caroline Is. p. 19 fig.; *X. oceanicum latum* subsp. nov. ♀ Lae, Marshall Is. p. 19 fig., Beier (2).

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Dysdera Latreille 1804 placed on Official List p. 89, Direction 66; *D. punctoria* (Villers) 1789 placed on Official List p. 116, Direction 67; *D. ninnii sibyllinica* subsp. nov. ♂ Monti Sibillini, Italy p. 285 fig.; *D. ruffoi* sp. nov. ♂ ♀ Monti Sibillini, Italy p. 286 fig., Kristscher (1).

Enoplognatha maritima new to Netherlands p. 44, *Chrysanthus*; *E. intrepida* ♀ ♂ p. 17 figs.; *E. joshua* ♀ ♂ p. 15 figs.; *E. marmorata* ♀ ♂ p. 11 figs.; *E. ovata* ♀ ♂ p. 7 figs.; *E. selma* ♀ ♂ p. 10 figs.; *E. tecta* ♀ ♂ p. 13 figs.; *E. thoracica* ♀ ♂ p. 9 figs.; *E. wyuta* ♀ ♂ p. 15 figs.; *E. camtschadalica* Kulczynski 1885 = *E. tecta* p. 13; *E. pallida* Emerton 1914 = *Nesticus pallidus* p. 6; *E. pikes* Chamberlin & Ivie 1943 = *E. intrepida* p. 18; *E. piuta* Chamberlin & Ivie 1942 = *E. joshua* p. 15; *E. rugosa* Emerton 1909 = *E. intrepida* p. 17, Levi.

Epeira pogisa sp. nov. ♀ Apia, Upolu, Samoa p. 394 fig., Marples; *E. bituberculata* (Hull 1948) = *Araneus gibbosus* p. 488, Locket & Millidge (1).

Eucta caudicula new to Korea p. 45, Paik.

Eucyrtops eremaea sp. nov. ♂. ♀ Cardinia Creek, Western Australia p. 421 fig.; *E. riparia* sp. nov. ♀. ♂ Mt. Misery, Western Australia p. 419 figs.; *E. latior* ♂ described p. 416 figs., Main.

Eupalaestrus tarsicrassus p. 399 figs.; *E. tenuitarsis* p. 400 fig., Buecherl.

Eurypelma latens p. 393 figs.; *E. rubropilosum* p. 393 figs., Buecherl.

Evarcha albaria p. 58 fig., Yaginuma.

Glypesis servulus ♀. ♂ Wicken Fen, Cambridgeshire, new to England p. 799 fig., Blest.

Gnaphosa lugubris ♂ p. 486 fig.; *G. occidentalis* ♂ p. 486 fig., Locket & Millidge (1).

Gonatiuum corallipes ♀ new to Great Britain p. 484 fig.; *G. ensipotens* (Hull 1951) = *G. rubens* p. 488, Locket & Millidge (1).

Gongylidiellum calcariferum ♂ new to Great Britain p. 484 figs., Locket & Millidge (1).

Grammostola actaeon p. 394 figs.; *G. burzaquensis* p. 395 fig.; *G. iheringii* p. 395 fig.; *G. mollicoma* p. 395 fig.; *G. pulchripes* p. 396 fig., Buecherl.

Hahnia cacuminata (Hull 1951) = *H. montana* p. 488, Locket & Millidge (1).

Hapalotremus uruguensis p. 391 figs., Buecherl.

Hyctia magister new to Korea p. 45, Paik.

Hyptioptes see *Uptiopites*, Muller.

Idiops montealegrensis p. 383 figs., Buecherl; *I. syracus* ♂ p. 254 figs., Kritscher.

Idiosoma nigrum ♂. ♀ p. 439 fig.; *I. signatum* ♂. ♀ p. 438 figs., Main.

Ischnothelie cranwelli p. 387 figs., Buecherl.

Juambeltzia clara p. 383 figs., Buecherl.

Kapitia gen. nov. [Oonopidae] p. 166; type species *K. obscura* sp. nov. ♂. ♀ Kapiti Id., New Zealand p. 166 figs., Forster.

Lasiodora curtior p. 400 figs.; *L. differens* p. 401 figs.; *L. difficilis* p. 401 figs.; *erythrocyclara* p. 402 fig.; *L. parahybana* p. 402 fig., Buecherl.

Lathys (*Scotolathys*) *punctosparsus* sp. nov. ♀. ♂ Buttsu-ji, Hiroshima Pref., Japan p. 49 fig., Oi.

Latrodectes Canestrini & Pavesi 1869 invalid emendation of *Latrodectus* Walckenaer 1805 p. 90; *L. Walckenaer* 1805 placed on Official List. p. 87, Direction 66; *L. tredecimguttata* (Rossi) 1790 placed on Official List p. 116, Direction 67; *L. mactans*, embryology p. 35 figs., Rempel.

Lepothrix = *Phaurothrix* p. 8, Bonnet (1).

Leprolochus decoratus sp. nov. ♂. ♀ Corozal, Panama p. 1 figs., Chickering (3).

Lephthyphantes cericeus p. 54 fig., Yaginuma.

Leptoneta speciosa sp. nov. ♂. ♀ Kazaana cave, Nagano Pref., Japan p. 68 fig.; Komatsu.

Leucauge ilatele ♂ described p. 392 fig., Marples; *L. magnifica* new to Korea p. 44, Paik.

Linyphia emphana new to Korea p. 43 figs., Paik; *L. emphana* p. 54 fig. Yaginuma.

Lithyphantes lugubris F.O.P.-Cambridge 1902 syn. of *Steatoda autumnalis* p. 382; *L. venusta* Marx 1898 syn. of *Steatoda fulva* p. 391; *L. punctulata* Marx 1898 syn. of *Steatoda medialis* p. 388; *L. laetus* O.P.-Cambridge 1896 syn. nov. = *Steatoda nigrofemoratus* p. 377, Levi (1).

Lycinus longipes p. 405 fig., Buecherl.

Lycosa lugbris p. 57 fig.; *L. daisetsuzana* p. 57 fig., Yaginuma.

Magullia symmetrica p. 391 figs., Buecherl.

Marpissa vittata new to Korea p. 45, Paik.

Masirana nippara sp. nov. ♂. ♀ Nippara cave, Tokyo, Japan p. 71 fig., Komatsu.

Micaria fulgens (Hull 1955) = *Clubiona* sp. imm. prob. *brevipes* p. 488, Locket & Millidge (1).

Neoantistea sp. new to Korea p. 45 figs., Paik.

Neoscona adianta new to Korea p. 44; *N. opima* new to Korea p. 44, Paik.

Nesticus birsteini sp. nov. ♀ Wet Chosta Cave, Caucasus p. 26 fig.; *N. caucasicus* sp. nov. ♀. ♂ near Gudauty, Cave Anysh, Cave Tchlakhe, Cave Agumava, Caucasus p. 27 fig.; *N. borutzkyi* p. 23 fig.; *N. ponticus* p. 19 fig.; *N. zaitzevi* p. 21 fig., Charitonov.

Ninetis neotropica sp. nov. ♂. ♀ Recife, Brazil p. 242 figs., Kraus (4).

Oeodothorax quadripunctatus p. 54 fig., Yaginuma.

Ostearius melanopygius new record in France p. 36, Denis (2).

Paidisca camano sp. nov. ♂. ♀ Alameda Co., California p. 105 figs.; *P. missionensis* sp. nov. ♀. ♂ Nuevo Leon, Texas p. 102 figs.; *P. sarasota* sp. nov. ♀ Sarasota Co., Florida p. 105 figs.; *P. sclerotis* sp. nov. ♀ Mimbres Mts., New Mexico p. 104 figs.; *P. expulsa* comb. nov. ♀. ♂ p. 109 figs.; *P. maderae* comb. nov. ♀. ♂ p. 106 figs.; *P. pallida* comb. nov. ♀. ♂ p. 99 figs.; *P. pictipes* comb. nov. ♀. ♂ p. 102 figs.; *P. unimaculata* comb. nov. ♀. ♂ p. 106 figs.; *P. illudens* ♀. ♂ p. 110 figs.; *P. marxi* ♀. ♂ p. 111 figs., Levi.

Pambopheteus cesteri p. 402 fig.; *P. isabellinus* p. 403 fig.; *P. roseus* p. 403 fig.; *P. sorocabae* p. 403 figs.; *P. tetricanthus* p. 403 figs., Buecherl.

Paratheridula gen. nov. [Theridiidae] p. 105; type species *P. quadrimaculata* comb. nov. for *Mysmena quadrimaculata* Banks 1896 ♀. ♂ p. 106 figs., Levi (3).

Pardosa caraiensis sp. nov. Karayasi, near Tbilis; Georgia, S.S.R. p. 297 fig.; *P. colchica* sp. nov. Dzhapana, near Batum, Georgia, S.S.R. p. 298 fig., Mkheidze.

Philodromus collinus new to Netherlands p. 45, Chrysanthus; *P. collinus* (Hull 1948, 1955) = *P. aureolus cespiticolis* p. 488; *P. usuratrix* (Hull 1955) = *P. dispar* p. 488, Locket & Millidge (1); *P. reussii* new to Korea p. 46 fig.; *P. auricomus* new to Korea p. 47, Paik.

Pholcomma barnesi sp. nov. ♂. ♀ Bucks Co., Pennsylvania p. 114 figs.; *P. carota* sp. nov. ♂ Carteret Co., North Carolina p. 113 figs.; *P. gibbum* p. 110 figs.; *P. hirsuta* p. 110 figs., Levi (3).

Pholcus affinis p. 57 fig., Yaginuma.

Phoneutria fera breeding and development p. 74 figs., Tretzel.

Phormictopus cancerides p. 398 figs., Buecherl.

Phorocnidia splendida ♂ p. 270 fig., Kritscher.

Phrulolithus claripes p. 59 fig., Yaginuma.

Porrhomma egeria, stridulating organ p. 487 fig., Locket & Millidge (1).

Pounamua gen. nov. [Oonopidae] p. 151; type species *P. vulgaris* sp. nov. ♂. ♀ Lake Te Au, New Zealand p. 151 figs.; *P. complexa* sp. nov. ♂. ♀ Fiordland, New Zealand p. 163 figs.; *P. hollowayi* sp. nov. ♂. ♀ Tararua Range, New Zealand p. 160 figs.; *P. hornabrooki* sp. nov. ♂. ♀ Fiordland, New Zealand p. 156 figs.; *P. totara* sp. nov. ♂. Manawatu, New Zealand p. 158 figs.; *P. vulgaris ramsayi* subsp. nov. ♂ Fiordland, New Zealand p. 154 figs., Forster.

Prodidomus bicolor sp. nov. ♀ Archipel de Suakin, Red Sea, Sudan p. 446 fig., Denis.

Prospotheca corniculans (Hull 1948) = *Gongylidium rufipes* p. 488, Locket & Millidge (1).

Psalistops auripilus p. 388 fig., Buecherl.

Pseudohomoeomma fasciatum p. 391 figs., Buecherl.

Pycnothele perdita p. 405 fig., Buecherl.

Rachias dispar p. 383 figs., Buecherl.

Robertus = *Ctenium* p. 485, Locket & Millidge (1).

Sarutana gen. nov. [Leptonetidae] p. 70; type species *S. glabra* sp. nov. ♂ Sarutado cave, Shikoku Id., Japan p. 70 fig., Komatsu.

Savaiia gen. nov. [Salticidae] p. 388; type species *S. punctata* sp. nov. ♀ Savaii, Western Samoa p. 388 fig., Marples.

Scotinella dixiana sp. nov. ♀. ♂ East Baton Rouge Parish, Louisiana p. 288 figs., Roddy.

Scytodes affinis ♂ p. 262 fig., Kritscher.

Sericopelma fallax p. 403 figs., Buecherl.

Spermophora sp. new to Korea p. 43 fig., Paik.

Spheropistha gen. nov. [Theridiidae] p. 14; type species *S. melanosoma* sp. nov. ♀ Okawamura, Japan p. 15 fig., Yaginuma (1).

Smeringopina gen. nov. [Pholcidae; Smeringopodinae] p. 233; type species *S. beninensis* sp. nov. ♂. ♀ Benin, West Africa p. 236 figs.; *S. camerunensis* sp. nov. ♂ Duala, Cameroons p. 237 figs.; *S. simplex* sp. nov. ♂. ♀ Esosung, Cameroons p. 238 figs.; *S. africana* p. 236; figs.; *S. armata* p. 234 figs.; key to species p. 233, Kraus (4).

Smeringopus peregrinoides sp. nov. ♂ Ruanda: ♀ Bukoba, Belgian Congo p. 224 figs.; *S. roeweri* sp. nov. ♂ Ruanda, Belgian Congo p. 226 figs.; *S. sambescicus* sp. nov. ♂. ♀ Shire River, Zambesi, Portuguese East Africa p. 228 figs.; *S. similis* sp. nov. ♂. ♀ Okahandja, South West Africa p. 230 figs.; *S. lesserti* sp. nov. ♂. ♀ Malela, Belgian Congo p. 222 figs.; *S. atomarius* p. 229 figs.; *S. hypocrita* p. 232 figs.; *S. pallidus* p. 219 figs.; *S. peregrinus* p. 223 figs.; key to species p. 217, Kraus (4).

Spermophora longiventris ♂ p. 263 figs., Kritscher.

Steatoda saltensis sp. nov. ♀ El Salto, Mexico p. 381 figs.; *S. mexicana* nom. nov. pro *Stearodea americana* F.O.P.-Cambridge 1902 non *S. americana* Emerton: pro *S. americana* Petrunkevitch 1911: pro *S. grandis* Chamberlin & Ivie 1935 non *S. grandis* Banks p. 417; *S. americana* comb. nov. pro *Asagena americana* Emerton 1882 p. 400; *S. autumnalis* comb. nov. pro *Lithyphantes autumnalis* Banks 1898 p. 382 figs.; *S. albomaculata* comb. nov. pro *Aranea albomaculata* De Geer 1778 p. 396 figs.; *S. fulva* comb. nov. pro *Lithyphantes fulvus* Keyserling 1882 p. 391 figs.; *S. medialis* comb. nov. pro *Lithyphantes medialis* Banks 1898 p. 388 figs.; *S. moesta* comb. nov. pro *Asagena moesta* O.P.-Cambridge 1896 p. 379 figs.; *S. nigrofemorata* comb. nov. pro *Lithyphantes nigrofemorata* Keyserling 1882 p. 377 figs. *S. pulcher* comb. nov. pro *Lithyphantes pulcher* Keyserling 1882 p. 393 figs.; *S. quadrimaculata* comb. nov. pro *Asagena quadrimaculata* O.P.-Cambridge p. 385 figs.; *S. quae sita* comb. nov. pro *Lithyphantes quae situs* O.P.-Cambridge p. 381 figs.; *S. septemmaculata* comb. nov. pro *Lithyphantes septemmaculatus* Keyserling 1884 p. 402 figs.; *S. transversa* comb. nov. pro *Lithyphantes transversa* Banks 1898 ♀ p. 383 figs.; *S. triangulosa* ♂ ♀ p. 407 figs.; *S. bipunctata* ♂. ♀ p. 413 figs.; *S. atascadera* ♂. ♀ p. 419

figs.; *S. borealis* ♂. ♀ p. 422 figs.; *S. castanea* ♀. ♂ p. 410 figs.; *S. grandis* ♀. ♂ p. 415 figs.; *S. hespera* ♀. ♂ p. 420 figs.; *S. grossa* ♀. ♂ p. 404 figs.; *S. palomara* ♀. ♂ p. 419 figs.; *S. merula* Fox 1940 = *S. grandis* p. 415; *S. zionis* Chamberlin & Ivie 1935 = *S. grandis* p. 415; key to *S. bipunctata* group p. 412; key to *S. fulva* group p. 387, Levi (1).

Storena (?) *bradleyi* ♀ p. 264 figs.; *S. hilaris* ♂ p. 265 figs.; *S. melanognatha* ♂ p. 266 figs.; *S. sciophana* ♂ p. 268 figs.; *S. sobria* ♀ p. 269 fig., Kritscher.

Stratinatella gen. nov. [Dictynidae] p. 448; type species *S. spinosa* sp. nov. ♀ Long Island, Archipel de Suakin, Red Sea, Sudan p. 448 fig., Denis.

Subantarctia duggdalei sp. nov. ♂. ♀ Canterbury, New Zealand p. 91 figs.; *S. fiordensis* sp. nov. ♂. ♀ Fiordland, New Zealand p. 94 figs.; *S. florate* sp. nov. ♂. ♀ Nelson, New Zealand p. 97 figs.; *S. stewartensis* sp. nov. ♂. ♀ Stewart Is., New Zealand p. 99 figs.; *S. transferred to Oonopidae* p. 89, Forster.

Talanites (?) *atscharica* sp. nov. Batum, Georgia, S.S.R. p. 300 fig., Mkheidze.

Tegenaria pontica sp. nov. ♀ Phanagoria Cave, Caucasus p. 25 fig., Charkitov; *T. deroueti* sp. nov. ♂ in grotte Cova Bastera, Villefranche, France p. 212 figs.; *T. antrorum* ♀ p. 212 fig.; *T. atrica* ♂. ♀ p. 216 figs.; *T. saeva* ♂. ♀ p. 216 figs., Dresco.

Tekellina gen. nov. [Theridiidae] p. 107; type species *T. archboldi* sp. nov. ♂. ♀ Dale Co., Florida p. 107 figs., Levi (3).

Tetragnatha tristani p. 2 figs., Chickerling, (1); *T. exigua* sp. nov. ♂. ♀ Hanover, Jamaica p. 3 figs.; *T. visenda* sp. nov. ♂ St. Catherine, Jamaica p. 7 figs.; *T. parva* ♂ p. 8 figs.; *T. versicolor* ♂ p. 8 figs., Chickering (2); *T. fragilis* sp. nov. ♂. ♀ Barro Colorado Id., C.Z. p. 317 figs.; *T. ertschi* sp. nov. ♂. ♀ El Volcan, Chiriqui, Panama p. 321 figs.; *T. mabelae* sp. nov. ♂ Barro Colorado Id., C.Z. p. 330 figs.; *T. sinuosa* sp. nov. ♂ Summit, C.Z. p. 340 figs.; *T. antillana* ♂. ♀ p. 306 figs.; *T. cognata* ♂. ♀ p. 310 figs.; *T. confraterna* ♂. ♀ p. 312 figs.; *T. ethodon* ♂ p. 316 figs.; *T. guatemalensis* ♂. ♀ p. 326 figs.; *T. laboriosa* ♂. ♀

p. 329 figs.; *T. mexicana* ♂ p. 333 figs.; *T. pallescens* ♂ ♀ p. 336 figs.; *T. pallida* ♂ ♀ p. 338 figs.; *T. tenuis* ♀ p. 342 figs.; *T. tenuissima* ♂ ♀ p. 344 figs.; *T. tropica* ♂ ♀ p. 347 figs.; *T. vermiformis* ♂ ♀ p. 349 figs.; key to ♂♂ and ♀♀ in Panama p. 303, Chickering (4); *T. squamata* new to Korea p. 45, Paik.

Teutana nesiotes Chamberlin 1924
syn. of *Steatoda fulva* p. 391; *T. modesta* Bryant 1948 syn. of *Steatoda grossa* p. 405; *T. zonata* Keyserling 1882 syn. of *Steatoda grossa* p. 405, Levi (1).

Thanatus arenarius (Hull 1948, 1955) = *Philodromus aureolus* p. 488; *T. formicinensis* (Hull 1955) = *Philodromus aureolus* p. 488, Locket & Millidge (1).

Theridion agricolae sp. nov. ♀ ♂ Seattle, Washington p. 84 figs.; *T. arizonense* sp. nov. ♀ Cochise Co., Arizona p. 49 figs.; *T. cameronense* sp. nov. ♀ Cameron Co., Texas p. 40 figs.; *T. cowlesae* sp. nov. ♀ Los Angeles, California p. 31 figs.; *T. dilutum* sp. nov. ♀ ♂ Hidalgo Co., Texas p. 37 figs.; *T. goodnightorum* sp. nov. ♀ ♂ Costilla Co., Colorado p. 41 figs.; *T. hidalgo* sp. nov. ♀ ♂ Starr Co., Texas p. 43 figs.; *T. istokpoga* sp. nov. ♀ ♂ Monroe Co., Florida p. 67 figs.; *T. kawea* sp. nov. ♀ Three Rivers, California p. 48 figs.; *T. llano* sp. nov. ♀ ♂ Llano, Texas p. 28 figs.; *T. michelbacheri* sp. nov. ♀ ♂ Siskiyou Co., California p. 48 figs.; *T. myersi* sp. nov. Fort Myers, Florida p. 31 figs.; *T. timpanogos* sp. nov. ♀ Timpanogos, Utah p. 31 figs.; *T. alabamense* ♀ ♂ p. 58 figs.; *T. albidum* ♀ ♂ p. 82 figs.; *T. antonii* ♀ p. 60 figs.; *T. atropunctatum* ♀ ♂ p. 66 figs.; *T. aurantium* ♀ ♂ p. 93 figs.; *T. australe* ♀ ♂ p. 41 figs.; *T. berkeleyi* ♀ ♂ p. 52 figs.; *T. californicum* ♀ ♂ p. 84 figs.; *T. cinctipes* ♂ p. 29 figs.; *T. cynicum* ♀ p. 39 figs.; *T. cheimatos* ♀ ♂ p. 96 figs.; *T. differens* ♀ ♂ p. 32 figs.; *T. dividuum* ♀ ♂ p. 25 figs.; *T. dulcineum* ♀ ♂ p. 26 figs.; *T. flavonotatum* ♀ ♂ p. 34 figs.; *T. frondeum* ♀ ♂ p. 81 figs.; *T. geminipunctatum* ♀ ♂ p. 43 figs.; *T. hobbsi* ♀ ♂ p. 62 figs.; *T. impressum* ♀ ♂ p. 89 figs.; *T. intervallatum* ♀ ♂ p. 64 figs.; *T. intritum* ♀ ♂ p. 35 figs.; *T. jeanae* ♀ ♂ p. 79 figs.; *T. lawrencei* ♀ ♂ p. 71 figs.; *T. leechi* ♀ ♂ p. 74 figs.; *T. lowriei* ♀ p. 98 figs.; *T. lyricum* ♀ ♂

p. 89 figs.; *T. melanurum* ♀ ♂ p. 55 figs.; *T. montanum* ♀ ♂ p. 71 figs.; *T. murarium* ♀ ♂ p. 22 figs.; *T. neomexicanum* ♀ ♂ p. 76 figs.; *T. neshamini* sp. nov. ♀ ♂ Bucks Co., Pennsylvania p. 88 figs.; *T. ohlerti* ♀ ♂ p. 98 figs.; *T. ornatum* ♀ ♂ p. 50 figs.; *T. orlando* ♀ ♂ p. 87 figs.; *T. pennsylvanicum* ♀ ♂ p. 85 figs.; *T. petraeum* ♀ ♂ p. 24 figs.; *T. petrense* ♀ p. 81 figs.; *T. pictipes* ♂ ♀ p. 77 figs.; *T. positivum* ♀ ♂ p. 68 figs.; *T. punctipes* ♀ ♂ p. 75 figs.; *T. punctosparsum* ♀ ♂ p. 61 figs.; *T. rabuni* ♀ ♂ p. 28 figs.; *T. rufipes* ♀ ♂ p. 56 figs.; *T. saanichum* ♀ ♂ p. 70 figs.; *T. sardae* ♂ p. 30 figs.; *T. sexpunctatum* ♀ ♂ p. 91 figs.; *T. simile* ♀ ♂ p. 53 figs.; *T. submissum* ♂ p. 38 figs.; *T. tinctum* ♀ ♂ p. 61 figs.; *T. transgressum* ♀ p. 47 figs.; *T. varians* ♀ ♂ p. 52 figs.; *T. maxillare* Emerton 1913 = *T. petraeum* p. 24; *T. maximillatum* Roewer 1942 = *T. petraeum* p. 24; *T. rugosum* Archer 1950 = *Enoplognatha intrepida* p. 18, Levi; *T. kraussi* sp. nov. ♀ Kolo-i-Suva, Viti Levu, Fiji Is. p. 391 fig., Marples; *T. bomae* sp. nov. ♀ introduced into Germany from Belgian Congo p. 282 figs., Schmidt (3); *T. neglectum* new to Nederlands p. 45, Chrysanthus; *T. melanurum* ♂ ♀ p. 481 fig.; *T. neglectum* ♂ ♀ new to Great Britain p. 481 fig., Locket & Millidge (1); *T. ferrugineum* p. 45 figs., Oi; *T. pinastri* new to Korea p. 43 figs., Paik; *T. pictum* p. 53 fig.; *T. yunohamense* p. 53 fig., Yaginuma.

Thomisus albertianus subsp. *verrucosus* subsp. nov. ♀ Flandria, Congo Belge p. 2; *T. albertianus* ♀ p. 1 figs.; *T. anthobioides* var. *mongbwalensis* var. nov. ♀ Mongbwalu, Congo Belge p. 4 fig.; *T. anthobioides* ♀ p. 4 fig.; *T. australis* sp. nov. ♂ Drakensberg Mts., Natal p. 6 figs.; *T. congoensis* sp. nov. ♂ Congo Belge p. 9 figs.; *T. dartevellei* sp. nov. ♀ Mahagi, Congo Belge, also Abyssinia p. 10 figs.; *T. dotorensis* sp. nov. ♂ Lukafu, Congo Belge p. 10 figs.; *T. gabonensis* sp. nov. ♂ Gabon p. 13 figs.; *T. janinae* sp. nov. ♀ Katana, Congo Belge p. 16 figs.; *T. madagascariensis* sp. nov. ♀ Madagascar p. 17 fig.; *T. madagascariensis* var. *pallida* var. nov. ♀ Madagascar p. 18; *T. mossambicus* sp. nov. ♀ Shilowana, Mosambique p. 20 figs.; *T. mossambicus*

var. weidneri var. nov., ♀ Johannesburg, Transvaal p. 20 fig.; *T. roeweri sp. nov.* ♀ Kibonoto, East Africa p. 21 figs.; *T. schoutedeni sp. nov.*, ♂ Matadi, Congo Belge p. 22 figs.; *T. albohirtus* ♀ p. 2 figs.; *T. anthobius* ♀ p. 5 figs.; *T. boesenbergi* ♂ p. 8 fig.; *T. daradiooides* ♀ p. 10 figs.; *T. ghesquierei* ♀ p. 14 fig.; *T. hilarulus* ♂. ♀ p. 14 figs.; *T. natalensis* ♀ p. 21 fig.; *T. schultzei* ♀ p. 24 figs.; *T. scrupulus* ♀ p. 26 figs.; *T. spiculosus* ♀ p. 27 figs.; *T. spinifer* ♀ p. 27 figs.; *T. stenningi* ♀ p. 29 figs.; *T. sus* ♂ p. 30 figs.; *T. urbensis* ♀ p. 31 fig.; *T. zuluanus* ♂ p. 32 fig., Comelliini; *T. albus* = *T. onustus* p. 9; Bonnet (1).

Tibellus punctata (Hull 1955) = *T. oblongua* p. 488 Locket & Millidge (1).

Tidarren fordum ♀. ♂ p. 73 figs.; *T. mixtum* ♀ p. 72 figs.; *T. sisyphooides* ♀. ♂ p. 70 figs., Levi (2); *T. levii* sp. nov. ♀ introduced into Germany from Belgian Congo p. 283 figs., Schmidt (3).

Titanoeca quadriguttata p. 203 figs.; *T. tristis* p. 205, Muller.

Tmesiphantes minensis p. 392 figs., Buecherl.

Trasyphoberus parvitaris p. 399 figs., Buecherl.

Trechona adspersa p. 386 figs.; *T. uniformis* p. 386 fig., Buecherl.

Trichoncus hackmani sp. nov. ♂. ♀ Kőkar, Öland, Finland p. 1 figs., Millidge.

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Grenoble, France p. 242 fig., Lundblad; *F. (Feltria) halberti* sp. nov. ♂. ♀ Gemeinde Rucăr, Rumania p. 107 figs., Motas et al.; *F. (F.) romijni* ♂, new to Hungary, p. 106, Szalay.

Fonsecia ptyysi sp. nov. off rat snake, Bombay p. 287, Rammohan Rao & Hiregauder.

Forcellinia fuliginosi sp. nov. ♀. ♂ in nest of *Lasius fuliginosus*, Erlangen, Germany p. 69 figs.; *F. rufae* sp. nov. deutonym. in nest of *Formica r. rufa*, Erlangen, Germany p. 71 fig.; *F. wasmanni* ♂. ♀ deutonym. p. 66 figs., Türk & Türk; *F. wasmanni* new to Denmark p. 32, Haarløv.

Forelia cetrata ♂. ♀ p. 258 figs.; *F. curvipalpis* ♀ p. 259 figs.; *F. curvipalpis* var. *dentipalpis* var. nov. ♀ Kastanienbaum, Switzerland p. 260 fig.; *F. liliacea* ♀ p. 259 fig.; *F. variegator* ♀ p. 258 figs., Lundblad.

Freyanomorpha gen. nov. [Analgesidae] p. 292; type species *F. diversa* sp. nov. ♂. ♀ off *Galachrysia nuchalis* (Glareolidae), Molondou and Mbalmayo, South Cameroon p. 292 figs.; *F. ambigua* sp. nov. ♂. ♀ off *Charadrius alexandrinus nigrirostris* (Charadriidae), Kribi, South Cameroon p. 295 figs., Gaud.

Frontipoda hastata ♀ p. 135 fig.; *F. setosa* ♀. ♂ p. 137 fig., Lundblad.

Frontipodopsis reticulatifrons var. *okinawaensis* var. nov. ♂ Amamioshima Id., Japan p. 373 fig., Imamura (1).

Froriepia vimariensis deutonym. p. 150 fig., Türk & Türk.

Gahrliepia (*Walchia*) *chinensis* sp. nov., larva off *Rattus norvegicus*, China p. 137 figs.; *G. (W.) chinensis* var. *oligoseta* var. nov. larva, China p. 138 figs.; *G. (W.) pacifica* sp. nov. larva off *Rattus norvegicus*, China p. 137 figs.; *G. (Schöngastiella) lui* sp. nov. larva, China p. 139 figs., Chen & Hsu; *G. (G.) yangchenensis* sp. nov. larva off *Suncus murinus*, *Rattus flavipectus* and *R. norvegicus*, Canton, China p. 396 figs.; *G. (Walchia) koi* sp. nov. larva off *Rattus flavipectus*, Kunming, Yunnan p. 398 figs., Chen & Hsu (1); *G. (Walchia) neosinensis* sp. nov. larva off *Rattus* sp., Chekiang Province, China pp. 450 and 460 figs.; key to species p. 452, Hsu & Wen (1); *G. (Walchia) alpestris* sp. nov. larva off

Rattus bowersi, Jeriau, Pahang p. 322 figs.; *G. (W.) cupa* sp. nov. larva off *Rattus rajah surifer*, Bukit Lagong Forest Res., Selangor p. 321 figs.; *G. (W.) cuspidata* sp. nov. larva off *Rattus sabanus*, Ulu Langat Forest Res., Selangor p. 307 figs.; *G. (W.) erana* sp. nov. larva off *Tupaia belangeri versurae*, Myitkyina, North Burma, also off *Rattus f. fulvescens*, off *Rattus flavipectus yunnanensis*, off *Rattus r. sladeni*, off *Anourosorex squamipes assamensis* p. 301 figs.; *G. (W.) krito-chaeta* sp. nov. larva off *Rattus r. thai*, Nakhon Ratchisma, Thailand p. 313 figs.; *G. (W.) micropelta* sp. nov. larva off *Mus* sp., Chaiyaphum, Thailand p. 311 figs.; *G. (W.) mima* sp. nov. larva off *Dremomys everetti* (squirrel), Mt. Kinabalu, North Borneo, also off *Rattus w. whiteheadi*, off *Tupia montana baluensis*, off *Nannosciurus whiteheadi* p. 315 figs.; *G. (W.) morrowae* sp. nov. larva off *Rattus sabanus*, Tenompak, North Borneo, also off *Rattus alticola* p. 308 figs.; *G. (W.) naniparma* sp. nov. larva off *Rattus w. whiteheadi*, Kuching, Sarawak p. 309 figs.; *G. (W.) rectifunda* sp. nov. larva off *Rattus w. whiteheadi* Mt. Kinabalu, North Borneo p. 321 figs.; *G. (W.) simulata* sp. nov. larva off *Rattus edwardsi ciliatus*, Jeriau, Pahang, also off *Rattus alticola*, off *Rattus rattus*, off *Rattus bowersi* p. 317 figs.; *G. (W.) soricicola* sp. nov. larva off *Crocidura* sp., Stilwell Road, Assam, also off *Rattus flavipectus yunnanensis*, off *Anourosorex squamipes assamensis*, off *Rattus r. sladeni* p. 305 figs.; *G. (W.) ewingi lupella* subsp. nov. larva off *Bandicota* sp. Chaiyaphum, Thailand, also off *Rattus rattus*, off Mongoose p. 335 figs.; *G. brennani* p. 349 figs.; *G. d. disparunguis* p. 327 figs.; *G. disparunguis pingue* comb. nov. p. 331 figs.; *G. enode* p. 345 figs.; *G. ewingi* p. 333 figs.; *G. lewthwaitei* p. 343 figs.; *G. manipurensis* p. 351 figs.; *G. rustica* p. 339 figs.; *G. turmalis* p. 337 figs.; discussion of subgenus p. 353; key to species and subspecies p. 354, Traub & Evans; *G. (Gahrliepia) barbigera* sp. nov. larva off shrew, Sundarbani, India p. 171 figs.; *G. (G.) fenestrulata* sp. nov. larva off rat, Kanchanaburi, Thailand p. 171 figs.; *G. (G.) marshi* sp. nov. larva off wild pig, Khon Kaen, Thailand p. 175 figs.; *G. (G.) ordinata* sp. nov. larva off *Rattus alticola alticola*, Paring, North Borneo p. 173 figs.; key to Asian larvae

of subgenus *Gahrliepia* p. 178; *G. (Schongastiella) argalea* sp. nov. larva off *Rattus sabanus*, Ulu Langat, Selangor also off tree shrew, *Tupaia glis* p. 183 figs.; *G. (S.) cucurbitula* sp. nov. larva off *Rattus w. whiteheadi*, Paring, North Borneo, also off *Rattus mulleri* p. 182 figs., Traub & Morrow (1); *G. (Fainiella) felis* sp. nov. larva in nasal cavities of *Felis lybica ugandae*, Buge- sera, Ruanda Urundi p. 287 fig.; *G. (F.) manis* sp. nov. larva in nasal cavities of *Manis (Phataginus) tricuspidis*, Bukaru, Belgian Congo p. 288 fig.; *G. (F.) acutalis* p. 286 fig.; *G. (F.) womersleyi* nymph described p. 288 figs., Vercammen-Grandjean & Fain (6); *G. (G.) romeri* p. 111 fig., Womersley (2).

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Haemolaelaps machaeratus sp. nov. ♀ Green Ant Is., Great Barrier Reef p. 207 figs., **Domrow**; *H. dogieli* sp. nov. ♀. ♂ off *Sicista betulina*, (forest mouse), Karelia, USSR p. 95 figs., **Schulman**.

Halolaelaps (*Saprogamasellus*) *suecicus* sp. nov. ♀. ♂ Simrishamn, Sweden p. 16 figs.; key to ♀♀ p. 20, **Sellnick** (3); *H. (S.) coxalis* [sp. nov.] ♂ with *Atropis distans*, Juist, also Jade Bay,

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Hericia (?) *paradoxa* sp. nov. deutonym. Erlangen, Germany p. 180 fig.; *H. hericia* ♀. ♂. N. p. 176 figs.; *H. fermentationis* ♀. ♂ N p. 178 figs., Türk & Türk.

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Histiogaster oudemansi sp. nov. deutonym. off *Ips* sp. and off *Xyleborus monographus*, France and Germany p. 144 fig.; *H. stammeri* sp. nov. ♀. ♂ Erlangen, Germany p. 142 figs.; *H. carpio* deutonym. off *Schizophyllum sabulosum* and off *Scolytus scolytus*, ♀. ♂ p. 140 figs., Türk & Türk.

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Holcothrombidium congoensis sp. nov. Lovoi, Katanga, Belgian Congo p. 327 fig., André.

Holoparasitus lichensis new to Denmark p. 18, Haarlev.

Holostaspis posteroarmatus Berlese 1904 syn. of *Macrocheles muscaedomesiae* (Scopoli) 1772 p. 25, **Filipponi & Cervone.**

Humerobates zumpti sp. nov. Namib, Southwest Africa p. 250 figs., **Sellnick** (2).

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Hydrachna (s. str.) *inversa* ♂ p. 18 figs.; *H. (s. str.) schneideri integra* ♂ . ♀ p. 20 figs. *H. (D.) globosa juncta* ♀ . ♂ p. 23 figs.; *H. (D.) rubicunda* ♂ p. 22 figs.; *H. (R.) processifera* ♀ . ♂ p. 24 figs., **Lundblad.**

Hydrodroma torrenticola ♂ . ♀ p. 60 fig., **Lundblad.**

Hydrovolzia (s. str.) *cancellata* ♂ p. 17 fig.; *H. (s. str.) placophora* ♂ p. 17 fig., **Lundblad.**

Hydrozetes lacustris, *H. lemnae*, *H. thienemanni* new to Denmark p. 39, **Haarlov.**

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Hygrobates calliger ♂ . ♀ p. 182 fig.; *H. fluviatilis* ♂ . ♀ p. 183 fig.; *H. foreli* ♂ . ♀ p. 181 figs.; *H. longiporus* ♂ p. 181 fig.; *H. nigromaculatus* ♂ p. 182 fig., **Lundblad.**

Hypoaspis womersleyi sp. nov. ♀ . ♂ Green Ant Is., Great Barrier Reef p. 205 figs., **Domrow**; *H. myrmophilus* var. *novus* var. nov. ♀ Rome, Italy p. 288, **Lombardini.**

Hypochthonius luteus new to Denmark p. 39, **Haarlov.**

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Kawamuracarus elongatus ♀ p. 355 fig., Imamura (1).

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Paratetranychus biotae ♀ ♂ p. 109 fig.; *P. brevipilosus* ♀ ♂ p. 112 fig.; *P. buschi* ♀ ♂ p. 111 fig.; *P. kobachidzei* ♀ ♂ p. 105 fig.; *P. longiclavatus* ♀ ♂ p. 105 fig.; *P. piceae* ♀ ♂ p. 108 fig.; *P. pini* ♀ ♂ p. 109 fig.; key to species p. 104, Bagdasaryan; *P. biotae* sp. nov. Georgia, SSR. p. 176; *P. longiclavatus* sp. nov. Georgia SSR p. 177; *P. piceae* sp. nov. Georgia SSR. p. 177, Rekk (1); *P. ununguis*, morphology and habits p. 159 fig., Brammans (1).

Partunia angusta ♂ p. 45 figs., Lundblad.

Passalozetes vicinus sp. nov. loc. ? p. 25 fig.; systematics of genus discussed p. 24, Mihelčič; *P. reticulatus* sp. nov. Alcalá de Henares, Central Spain p. 67 fig.; *P. vicinus* sp. nov. El Escorial, Spain p. 68, Mihelčič (3); *P. permixtus* sp. nov. Ötztaler Alpen, Tirol p. 112 fig., Mihelčič (5); *P. perforatus* new to Denmark p. 43 fig., Haarløv.

Passerrhinoptes andropadi ♀ ♂ p. 30 figs., Fain (8).

Pelethiphis berlesei sp. nov. ♀ off *Circellum bacchus*, Brakkloof, Transvaal p. 609 figs.; *P. eiseleini* sp. nov. ♀ off *Helicocoris gigas*, Potchefstroom, Transvaal, also off *H. hamadryas* p. 613 figs.; *P. geyeri* sp. nov. ♂ off *Copris elphanor*, Potchefstroom, Transvaal p. 611 figs.; *P. vaneedeni* sp. nov. ♂ deutonym. off *Helicocoris hamadryas*, Potchefstroom, Transvaal, also off *H. gigas* p. 611 figs.; *P. rufescens* p. 606 figs.; key to

South African species p. 606, Ryke & Meyer (1); *P. equestris* new to Britain on *Geotrupes stercorarius* p. 415, Evans; *P. sculus* p. 115 fig., Gotz & Hirschmann.

Pelops diversus sp. nov. Guadarrama Mts., Spain p. 54 fig.; *P. fusiger* sp. nov. Navacerrada, Spain p. 55 fig.; *P. gibbus* sp. nov. Madrid, Spain p. 56 fig.; *P. variatus* sp. nov. Salamanca, Spain p. 53 fig.; *P. acromius* p. 57 fig.; *P. bilobus* p. 61 fig.; *P. nepotulus* p. 59 fig.; *P. subexutus* p. 60 fig.; key to species groups p. 61, Mihelčič (1); *P. occultus* new to Denmark p. 44 fig., Haarløv.

Peloptulus gibbus sp. nov. Sierre Nevada, Spain p. 63 fig.; *P. reticulatus* sp. nov. between Thymusstaufen and Aranjuez, Spain p. 62 fig., Mihelčič (1).

Peloribates alatus sp. nov. Madrid, Spain p. 114 fig., Mihelčič (4).

Pelzneria gen. nov. [Tyroglyphidae: Anoetinae] p. 347; type species *Anoetus crenulatus* Oudemans 1909 p. 347 figs.; *P. necrophori* ♀ N. p. 349 fig., Scheucher.

Penthaleus crinitus sp. nov. ♀ Morelos, Mexico p. 111 figs.; Narayan (1); *P. sp.* new to Denmark p. 30, Haarløv.

Penthalodes ovalis new to Denmark p. 30, Haarløv.

Pergamasellus gen. nov. [Parasitidae]. p. 217; type species *P. delicatus* sp. nov. ♀ Great Britain p. 217, Evans (2).

Pergamasus brevicornis and *P. runiciger* new to Denmark p. 19, Haarløv.

Periglischrus strandtmanni sp. nov. ♀ ♂ off bat (*Mormoops megalophylla senicula*), Uvalde Co., Texas p. 14 figs.; key to species p. 14 figs., Tibbets; *P. vespertilionis* Kolenati 1857 rejected and invalid p. 92, Direction 66.

Petrobia brevipes sp. nov. Armenia p. 189; *P. erivanica* sp. nov. Armenia p. 190, Rekk (5); *P. erivanica* ♀ p. 82 fig.; *P. brevipes* ♀ ♂ p. 84 fig., Bagdasaryan.

Phaulodinychus minor p. 181 fig.; *P. repletus* p. 180 fig.; key to species p. 180, Willmann.

Phthiracarus tardus sp. nov. Sweden p. 216 figs., Forsslund (1).

Phyllocoptes nevadensis sp. nov. ♀ off *Euphorbia luteola*, Granada, Spain p. 27 figs.; *P. gracilis* comb. nov. ♀ p. 26, Roivainen.

Phyllodynchus [sic *Phyllodinchus*] *ornatus* sp. nov. ♀ with *Rattus norvegicus*, San Juan, Puerto Rico p. 69 fig., Fox.

Phyloptus dehesae sp. nov. ♀ off *Carex Goodenowii* v. *intricata*, Granada, Spain p. 17 fig., Roivainen.

Phytoseiulus persimilis sp. nov. ♀. ♂ Staouéli, Alger p. 347 fig., Athias-Henriot.

Phytoseius horridus ♀. ♂ p. 343 fig.; *P. plumifer* ♀ p. 342 fig., Athias-Henriot; *P. plumifer* ♀ p. 362 figs., Chant (1).

Piona coccinoides subsp. *baffinensis* subsp. nov. ♂ Baffin Id. p. 1 figs., Habeeb (1); *P. (s.str.) brehami* ♂. ♀ p. 258 figs.; *P. (s. str.) coccinea* var. *confertipora* ♂ p. 252 fig.; *P. (s. str.) disparilis* ♂ p. 255 figs.; *P. (s. str.) nodata* var. *nodaoides* ♀ p. 251 figs.; *P. (s. str.) nodata* ♂ p. 250 fig.; *P. (s. str.) rotunda* var. *rotundoides* ♂. ♀ p. 253 fig.; *P. (T.) discrepans* ♂ p. 257 fig., Lundblad.

Pionacercus (s. str.) *leuckarti* ♀ p. 248 figs.; *P. (s. str.) norvegicus* ♀ p. 248 fig.; *P. (P.) vatrax* ♀ p. 249 fig., Lundblad.

Platynothrus capillatus var. *peltiferinus* var. nov. Práded, Jeseníky Mts., Czechoslovakia p. 120; *P. capillatus* v. *septentrionalis* new to Czechoslovakia p. 120, Winkler (3).

Platyseius queenslandicus ♀ p. 205 fig., Domrow.

Plesiodesmaeus glaber sp. nov. Madrid, Spain p. 55 fig., Mihelčík (3).

Pleisiolaelaps gen. nov. [Laelaptidae] p. 68; type species *P. miniopterus* sp. nov. ♀. ♂ off bat, *Miniopterus schreibersi*, Joanna, South Australia p. 68 figs., Womersley (3).

Pneumonyssus pangorillae sp. nov. ♀. ♂ in chimpanzee, *Pan paniscus*, Ponthierville, Belgian Congo also in *Gorilla gorilla rex-pygmaeorum* p. 235 figs.; *P. rodhaini* p. 236 fig.; *P. longus* sp. nov. ♀. ♂ in *Cercopithecus a. ascanius*, Kulingu, Belgian Congo p. 240 Fain (6).

Podothrombidium pilosum sp. nov. Kalehe, Kivu, Belgian Congo p. 319 fig., André.

Poecilochirus necrophori biology and anatomy p. 1802 figs., Belozerov (1).

Pontarachna key to species p. 148, Viets, K. (1).

Posthermannia hirsuta comb. nov. for *Nanhermannia hirsuta* Hartman 1949, p. 456, Grandjean (2).

Proctophylloides acanthicaulus sp. nov. ♂. ♀ off *Muscicapa striata* (Muscicapidae), Kribi and Yaoundé, South Cameroons p. 508 fig.; *P. anisogamus* sp. nov. ♂. ♀ off *Picathartes oreas*, Yaoundé, Cameroons p. 509 fig.; *P. aphyllus* sp. nov. ♂. ♀ off *Dicrurus atripennis* (Dicruridae), Yaoundé and Ambam, South Cameroons p. 509 figs., *P. meciostocaulus* sp. nov. ♂ off *Pyrrhurus simplex* (Pycnonotidae), Yaoundé, South Cameroons p. 511 fig.; *P. pachycaulus* sp. nov. ♂. ♀ off *Pyrrhus simplex* (Pycnonotidae), Yaoundé, South Cameroons p. 511 figs.; *P. pachynotus* sp. nov. ♂ off *Pedilophryncus comitatus camerunensis*, Kribi, South Cameroons p. 511 fig.; *P. rhynchocaulus* sp. nov. ♂. ♀ off *Platysteira cyanea* (Muscicapidae), Yaoundé, South Cameroons p. 512 figs.; *P. stenophyllus* sp. nov. ♂. ♀ off *Pycnonotus barbatus gabonensis* and off *Thescelocichla leucopleura* (Pycnonotidae), Yaoundé and Ambam, South Cameroons p. 513 figs., Gaud & Mouchet (3).

Proprioseius gen. nov. [Phytoseiidae] p. 357; type species *P. meridionalis* sp. nov. ♀. ♂ off *Psychotria bahamensis*, Homestead, Florida p. 358 figs.; *P. clancyi* sp. nov. ♀. ♂ off wild blackberry, Keaneysville, West Virginia p. 358 figs., Chant (1).

Protodinychus gen. nov. [Protodinychidae] p. 239; type species *P. punctatus* sp. nov. ♀ Great Britain p. 239 figs., Evans (2).

Protoribates micropterus sp. nov. Guadarrama, Spain p. 114 fig., Mihelčík (4).

Protzia (s. str.) *curvipalpis* sp. nov. ♂. ♀ Bussaco, Portugal p. 39 figs.; *P. (s. str.) invalvaris* ♂ p. 43 figs.; *P. (s. str.) rugosa* ♂. ♀ p. 41 figs.; *P. (C.) annularis* ♀. ♂ p. 32 figs.; *P. (C.) eximia* ♀ p. 35 figs.; *P. (C.) octopora* ♀. ♂ p. 31 figs.; *P. (C.) squamosa* ♂ p. 34 figs., Lundblad.

Pseudopachylaelaps gen. nov. [Laelaptidae] p. 55; type species *P. ornatus* sp. nov. ♀ Pietermaritzburg, Natal p. 56 figs., Evans (1).

Pseudoradfordia gen. nov. [Myobiidae] p. 118; type species *Myobia affinis* Poppe 1896 p. 120 fig., Dubinin (1).

Pseudoschongastia novita sp. nov. larva off *Rattus rajah*, Bukit Lagong Forest Res., Selangor, also off *Tupaia glis* p. 371 fig., Audy & Womersley (6).

Pseudotorrenticola (P.) quinquescata ♂. ♀ p. 145 fig., Lundblad.

Psorergates hystrici sp. nov. ♂. ♀ off porcupine, *Hystrix africaeaustralis*, South Africa p. 329 figs., Till (2).

Psoroptes Gervais 1841 *equi* Gervais deleted from Official List as type species, amended *Sarcoptes equi* Raspail 1834, Bull. gén. Thér. méd. chir., Paris 7 (Suppl.): 182, p. 89, Direction 66; *P. equi* (Raspail) 1834 placed on Official List p. 116, Direction 67.

Psoroptoides gorillae sp. nov. ♂ off *Gorilla gorilla*, South Cameroons p. 136 figs., Gaud & Till (4).

Pterodectes acotylurus sp. nov. ♂. ♀ off *Vidua macroura* (Ploceidae), Ambam and Yaoundé, South Cameroons p. 514 figs.; *P. agriocerus* sp. nov. ♂. ♀ off *Pyrrhus simplex* and *Baepogon indicator* (Pyconotidae), Yaoundé, South Cameroons p. 516 figs.; *P. allocaulus* sp. nov. ♂ off *Platysteira cyanea* (Muscicapidae), Yaoundé, South Cameroons p. 517 fig.; *P. amblycercus* sp. nov. ♂. ♀ off *Chloropeta natalensis batesi* (Muscicapidae), Yaoundé, South Cameroons p. 517 figs.; *P. brachycaulus* sp. nov. ♂. ♀ off *Malimbus coronatus* (Ploceidae), Ambam, South Cameroons p. 518 figs.; *P. centropus* sp. nov. ♂. ♀ off *Trachylaemus purpuratus* (Capitonidae), Kribi and Yaoundé, South Cameroons p. 519 figs.; *P. dicruri* sp. nov. ♂. ♀ off *Dicrurus atripennis* and *D. adsimilis* (Dicruridae), Ambam and Yaoundé, South Cameroons p. 520 figs.; *P. diplocercus* sp. nov. ♂. ♀ off *Stizorhina frazeri* (Muscicapidae), Ambam and Yaoundé, South Cameroons p. 522 figs.; *P. diplotrema* sp. nov. ♂. ♀ off *Poeoptera lugubris* (Sturnidae), Yaoundé, South Cameroons p. 523 figs.; *P. gigas* sp. nov. ♂. ♀ off *Amblyospiza albifrons saturata*, (Ploceidae), Yaoundé, South Cameroons p. 524 figs.; *P. heterocaulus* sp. nov. ♂. ♀ off *Nigrita canicapilla*

(Ploceidae), Yaoundé, South Cameroons p. 526 fig.; *P. holostictus* sp. nov. ♂. ♀ off *Pycnonotus barbatus gabonensis*, off *Bleda eximia* and off *Calyptocichla serina* (Pyconotidae), Yaoundé, South Cameroons p. 527 figs.; *P. leiolapax* sp. nov. ♂. ♀ off *Cossypha cyanocampter* (Turdidae), Ambam: also off *Chlorocichla simplex* and off *Atimatillas flavigollis soro* (Pyconotidae), Yaoundé, South Cameroons p. 527 fig.; *P. listroproctus* sp. nov. ♂. ♀ off *Picathartes oreas* (Sturnidae), Yaoundé, South Cameroons p. 528 figs.; *P. mesocaulus* sp. nov. ♂. ♀ off *Anthreptes frazeri cameronensis* (Nectariniidae), Yaoundé, South Cameroons p. 529 figs.; *P. oligostictus* sp. nov. ♂. ♀ off *Lagonostica rubricata*, off *Clytospiza monteiri*, off *Estrilda nonnula* (Ploceidae), Yaoundé, South Cameroons p. 531 figs.; *P. pardalis* sp. nov. ♂. ♀ off *Malimbus coronatus* (Ploceidae), Ambam, South Cameroons p. 532 figs. & *P. platynocercus* sp. nov. ♂. ♀ off *Eranornis longicauda* (Muscicapidae), Yaoundé, South Cameroons p. 533 figs.; *P. synoternus* sp. nov. ♂. ♀ off *Spermophaga haematina* (Ploceidae), Yaoundé, South Cameroons p. 535 figs.; *P. papillo* p. 532 fig.; *P. ranci* p. 533 fig.; *P. stephanocaulus* p. 535 fig., Gaud & Mouchet (3); *P. buphagi* sp. nov. ♂. ♀ off Red-billed Oxpecker, *Buphagus erythrorhynchus*, junction Sabi and Lundi Rivers, S. Rhodesia p. 452 figs.; *P. delicatulus* sp. nov. ♂. ♀. N. off *Passer grisea*, Marinqua, Mozambique p. 450 figs., Till (1).

Pteropterus vespertilionis Dufour 1832 rejected and invalid p. 91, Direction 66.

Ptilonyssus cerchneis sp. nov. ♀ in nasal cavities of *Cerchneis tinnunculus rufescens*, Rugege, Belgian Congo p. 133 figs.; *P. indicatoris* sp. nov. ♀ in nasal cavities of *Indicator indicator*, Akanyaru, Belgian Congo p. 134 figs.; *P. andropadi* ♀ p. 114 figs.; *P. astridae* ♀ p. 98 figs.; *P. aureliani* ♀ p. 109 figs.; *P. calamocichiae* ♀ p. 114 figs.; *P. chlorocichiae* ♀ p. 114 figs.; *P. dicruri* ♀ p. 122 figs.; *P. capensis* ♀ p. 89 figs.; *P. dioptrornis* ♀ p. 124 figs.; *P. dryoscopi* ♀ p. 89 figs.; *P. emberizae* ♀ p. 95 figs.; *P. lanii* ♀ p. 103 figs.; *P. melittophagi* ♀ p. 121 figs.; *P. motacillae* ♀ p. 104 figs.; *P. orioli* ♀ p. 114 figs.; *P. phyllastrephi* ♀ p. 104 fig.; *P. ploceanus* ♀ p. 89 figs.; *P. psalidoprocnei* ♀ p. 117 fig.; *P. pycnonoti* ♀. ♂ p. 109 figs.; *P. ruandae*

φ p. 109 figs.; *P. serini* φ p. 90 figs.; *P. strandtmanni* φ p. 86 figs.; *P. triscutatus* φ p. 121 figs.; *P. viduae* φ p. 120 figs.; *P. zumpti* φ p. 91 figs., Fain (8).

Punctoribates hygrophilus sp. nov. Northern Spain p. 112 fig., Mihelčič (4); *P. pragensis* sp. nov. Prague, Czechoslovakia p. 127 fig., Winkler; *P. hexagonus* p. 45 fig., *P. sellnicki* p. 46 both new to Denmark, Haarløv.

Pygmephorus amplus, *P. arvorum*, *P. blumentritti*, *P. chaetosus*, *P. comatus*, *P. cultratus*, *P. gracilis*, *P. haarløvi*, *P. pratensis*, *P. sellnicki*, *P. togatus*, *P. willmanni* all new to Denmark pp. 24–25. Haarløv.

Rallinyssus congolensis φ p. 58 figs.; *R. limnocoracis* φ p. 60 figs., Fain (8).

Rhagidia intermedia, *R. mucronata*, *R. pratensis*, *R. sp?* *diversicolor*, all new to Denmark pp. 30–31 figs., Haarløv.

Rhinoecius tytonis φ p. 131 figs., Fain (8).

Rhinonyssus afribyx φ p. 48 figs.; *R. poliocephali* φ p. 45 figs., Fain (8).

Rhinophaga atheruri sp. nov. φ . δ in frontal sinus of porcupine, *Atherurus africanus centralis*, Irangi, Congo Belge p. 77 figs.; *R. leopoldi* sp. nov. φ . δ in frontal sinus of porcupine, *Atherurus a. centralis*, Irangi, Congo Belge p. 71 figs.; key to φ p. 81, Fain (3); *R. hystrici* sp. nov. φ . L. off porcupine, *Hystrix africaeaustralis*, South Africa p. 331 figs., Till (2).

Rhinoptes piernistis φ . δ p. 37 figs., Fain (8).

Rhipicentor bicornis Nuttall and Warburton 1908 placed on Official List p. 115, Direction 67.

Rhipicephalus confusus sp. nov. δ . φ off buffalo, Ile, Zambesia, also off *Synicerus caffer pungwensis*, off *Phacochoerus aethiopicus sundevalli*; off *Taurtragus oryx livingstoni*; off *Potamochoerus porcus koiropotamus*; off *Sylvicapra grimmia altifrons*; off *Ozanna g. grandicornis*; off *Kobus e. ellipsiprymnus* p. 40 figs.; *R. falcatus* Neumann 1908 = *R. longus* Nn. 1907 p. 44; *R. pseudolongus* Dias 1953 = *R. longus* Nn. 1907 p. 44, Dias; *R. boueti* sp. nov. δ . φ off *Procavia ruficeps*, Agouagon, Dahomey p. 696 fig., Morel; *R. humeralis* δ . φ . N. L. hosts and distribution p. 145 figs., Walker; *R. Koch* 1844 placed on Official List p. 88, Direction 66; *R. sanguineus*

(Latreille) 1806 placed on Official List p. 115, Direction 67; *R. sanguineus* δ p. 51 fig., Barrera; *R. sanguineus sanguineus* p. 101 figs., Kohls; *R. sanguineus* p. 26 figs., U.S. Army 406 Med. Gen. Lab.

Rhizoglyphus echinopus φ . δ . N. p. 123 figs., Türk & Türk.

Rhodacarus marksae sp. nov. φ Green Ant Is., Great Barrier Reef p. 200 figs., Domrow; *R. strenzkei* sp. nov. δ Grünen Insel, Germany p. 166 fig., Willmann; *R. roseus* p. 19 figs., Haarløv.

Rhopalanoetus gen. nov. [Tyroglyphidae: Anoetinae] p. 362; type species *Anoetus lanceocrinus* Oudemans 1914 p. 362 figs., Scheucher.

Rhyncaphyoptus aisasuensis sp. nov. φ off *Salix "aurita"*, Navarra, Spain p. 31 fig.; *R. ulmicola* sp. nov. φ off *Ulmus scabra*, Navarra, Spain p. 32 fig., Roivainen.

Rodhainyssus brutsaerti in eyes of *Epomophorus* sp. [Mamm.] Kivu, Belgian Congo p. 253, Fain (5).

Ruandanyssus gen. nov. [Rhinonyssidae], p. 148; type species *R. terpsiphonei* sp. nov. φ . δ in nasal cavities of *Terpsiphone viridis kivuensis*, Astrida, Ruanda-Urundi p. 148 figs.; *R. apus* sp. nov. φ . δ in nasal cavities of *Apus caffer streubeli*, Akanyaru, Ruanda-Urundi p. 151 figs., Fain.

Saproglyphus neglectus φ p. 151 fig., Türk & Türk.

Sarcopetes vespertilionis Latreille 1802–1803 rejected and invalid p. 92, Direction 66.

Scarabaspis punctatus sp. nov. φ . δ . N. from cattle dung, Phewa Tal, Nepal p. 413 figs.; *S. inexpectatus* comb. nov. pro. *Emeus inexpectatus* Oudemans 1903, p. 411 figs.; *S. orientalis* comb. nov. pro. *Iphidozercon orientalis* Berlese 1920 p. 410; *S. aspera* Womersley 1956 syn. of *S. orientalis* p. 410; Genus redefined and transferred from Hypoaspididae to Eviphidinae p. 409; Key to species p. 410, Evans; *S. africanus* sp. nov. φ off *Pachylomora femoratus*, Manico Rd., South Rhodesia p. 616 figs., Ryke & Meyer (1).

Scheloribates penicillatus sp. nov. Aranjuez, Spain p. 109 fig.; *S. barbatulus* p. 110 fig.; *S. angustirostris* sp. nov. Guadarrama Mts., Spain p. 110 fig., Mihelčič (4); *S. laevigatus* p. 46 fig., Haarløv.

Schizonobiella gen. nov. [Tetranychidae] p. 87; type species *S. aeola* sp. nov. ♀. ♂ Alice, Texas p. 87 figs., Beer & Lang (1).

Schizotetranychus aceri ♀. ♂ p. 133 fig.; *S. avetjanae* ♀. ♂ p. 121 fig.; *S. bakurianensis* ♀. ♂ p. 139 fig.; *S. bambusae* ♀. ♂ p. 136 fig.; *S. carpinula* ♀. ♂ p. 130 fig.; *S. coryli* ♀. ♂ p. 127 fig.; *S. fagi* ♀. ♂ p. 134 fig.; *S. fraxini* ♀. ♂ p. 124 fig.; *S. georgicus* ♀. ♂ p. 120 fig.; *S. jachontovi* ♀. ♂ p. 123 fig.; *S. ibericus* ♀. ♂ p. 137 fig.; *S. pruni* ♀. ♂ p. 125 fig.; *S. pterocaryae* ♀. ♂ p. 125 fig.; *S. rubiphilus* ♀. ♂ p. 139 fig.; *S. salicicola* ♀. ♂ p. 140 fig.; *S. schizopus* ♀. ♂ p. 138 fig.; *S. telarius* ♀. ♂ p. 129 fig.; *S. ulmicola* ♀. ♂ p. 130 fig.; *S. viticola* ♀. ♂ p. 131 fig., Bagdasaryan; *S. avetjanae* sp. nov. Armenia p. 54, Bagdasaryan (2); *S. jachontovi* sp. nov. Georgia, SSR. p. 175, Rekk (1); *S. georgicus* sp. nov. Georgia p. 176, Rekk (2); *S. carpinula* sp. nov. Georgia p. 131; *S. coryli* sp. nov. Georgia p. 130; *S. pterocaryae* sp. nov. Georgia p. 130, Rekk (3).

Schongastia propria sp. nov. larva off *Natrix piscator*, Bombay, India p. 367 fig., Audy & Womersley (6); *S. (Ascoschongastia) longisetosa* sp. nov. larva off *Naja naja*, India p. 313, Hiregaudar (2); *S. cantonensis* sp. nov. larva Kwangtung Province, China p. 225 figs., Liang et al.; *S. hyracis* sp. nov. larva off *Hyrax* sp., Kaabong, Uganda p. 486 fig., Verammen-Grandjean & Brennan (5); *S. radfordi* larva p. 564 figs., Abonnenc & Taufflieb (1).

Schöngastiella punctata new to Turkmenia p. 455 fig., Schluger & Myshchenko (1).

Schoutedencoptes aquilae ♀. ♂ p. 20 figs.; *S. dartevellei* ♀ p. 22 figs.; *S. numidiae* ♀. ♂ p. 17 figs., Fain (8).

Schwiebea talpa new to Denmark p. 32, Haarlov; *S. talpa* ♂. ♀ p. 293 figs., Hughes (1); *S. cavernicola* ♀. ♂. N. p. 127 figs.; *S. euryonymphae* ♀. ♂. N. p. 129 figs.; *S. nova* ♀. ♂. N. p. 131 figs., Türk & Türk.

Schwiebea carli sp. nov. deutonym. off *Lasius flavus*, Erlangen, Germany p. 138 fig.; *S. koernerii* sp. nov. deutonym. off *Lasius brunneus*, Erlangen, Germany, p. 139 fig.; *S. menzeli* sp. nov. deutonym. off *Melanotus castanipes*, off *Dolopius marginatus* off

Myrmica laevinodis, France and Germany p. 137 fig.; *S. nesbitti* sp. nov. deutonym. off *Dorcus parallelipedus*, off *Melanotus rufipes*, off *Unciger foetidus*, off *Pterostichus anthracinus*, Baden and Erlangen, Germany p. 136 fig.; *S. scheucherae* sp. nov. deutonym. off *Craspedosoma allemanicum*, off *Julus scandinavius*, off *Camponotus ligniperda*, Erlangen, Germany p. 135 fig. *S. schmuttererii* sp. nov. deutonym. *Lasius brunnens*, off *Lithobius forficatus*, off *Carabus violaceus*, Erlangen, Germany p. 134 fig., Türk & Türk.

Scutacarus haarlovi, *S. montanus*, *S. quadrangularis*, *S. similis*, *S. subterraneus* all new to Denmark p. 24, Haarlov.

Scutovertex (S.) rugosus sp. nov. Spain p. 63 fig.; *S. (Neoscutovertex) subgen. nov.* *glaber* sp. nov. Guadarrama Mts., Spain p. 64 fig.; *S. (N.) granulatus* sp. nov. Vaciamadrid, Spain p. 65 fig., Mihelčič (3); *S. minutus* p. 46 fig., Haarlov.

Secretargas subgen. nov. see *Argas*, Hoogstraal.

Sennertia xylocopae deutonym. p. 210 fig., Türk & Türk.

Sessiluncus heterotarsus ♂. ♀ p. 204 figs., Domrow.

Siseca southcotti sp. nov. larva off *Lygosoma rhomboidalis*, Lake Eacham, North Queensland p. 235 fig.; *S. rara* nymph described p. 237 figs.; *S. subrara* nymph described p. 239 figs., Womersley & Audy (5).

Siteroptes reniformis sp. nov. ♀. ♂ off cotton boll, Edison district, California p. 262 figs., Krantz.

Soldanellonyx miyakoensis sp. nov. ♀ Mui-Gaga, Miyako Id., Riukiu Is. p. 57 fig.; *S. papillosum* sp. nov. ♀ Yoshidamachi, Hiroshima Pref., Japan p. 58 fig.; *S. monardi monardi* ♀ p. 56 fig., Imamura; *S. chappuisi* ♀ new to Hungary p. 106, Szalay.

Spathulathrombium Womersley 1945 syn. of *Ctenerythraeus* Berlese 1918 p. 135, Southcott (2).

Spatiodamaeus subgen. nov. *Damaeus*, Bulanova-Zakhvatina (1).

Spelaeothrombium congoense sp. nov. ♀ in cave at Kakontwe, Belgian Congo p. 335 figs.; *S. leleupi* sp. nov. ♀ in cave at Kakontwe, Belgian Congo p. 339 fig., André.

Sperchon (Hispidosperchon) monstruosus sp. nov. ♂. ♀ Kaltbrunnental, Switzerland p. 35 figs.; *S. denticulatus* p. 43 figs.; *S. hibernicus* p. 39 figs.; *S. violaceus* p. 43 figs.; *Bader*; *S. clupeifer* ♂ p. 75 figs.; *S. denticulatus* ♂ p. 76 fig.; *S. denticulatus* var. *hibernicus* ♂ p. 78 fig.; *S. glandulosus* ♀ p. 71 figs.; *S. longirostris* ♂. ♀ p. 64 figs.; *S. longissimus* ♂ p. 65 figs.; *S. hispidus* ♂ p. 74 figs.; *S. mutilus* ♂. ♀ p. 72 fig.; *S. papillosum* ♀. ♂ p. 66 figs.; *S. papillosum* *algeriensis* ♂ p. 68 fig.; *S. papillosum* *compactilis* ♀. ♂ p. 69 fig.; *S. squamosus* ♂. ♀ p. 63 fig.; *S. violaceus* ♂. ♀ p. 78 figs.; key to species p. 81, *Lundblad*.

Sphaerobates (?) *dentatus* sp. nov.
Caceres, Spain p. 111 fig., *Mihelčič* (4).

Spinanoetus gen. nov. [Tyroglyphidae: Anoetinae] p. 357; type species *S. pelznerae* sp. nov. ♀. ♂. N. off *Thanatophilus sinuatus*, off *T. rugosus*, off *Oecoptoma thoracica*, off *Necrophorus interruptus*, Erlangen, Germany p. 358 figs.; *S. weingaertnerae* sp. nov. ♀. ♂. N. off *Philontus* sp. and *Ontolestes* sp. (Staphylinid), Erlangen, Germany p. 360 figs., *Scheucher*.

Spinturnix Van der Hoeven 1849 invalid emendation of *Spinturnix* van Heyden 1826 p. 90, *Direction 66*.

Spinturnix vespertilionis van Heyden 1826 rejected and invalid p. 92, *Direction 66*; *S. myoti* (Kolenati) 1856 placed on Official List p. 116, *Direction 67*; *S. vespertilionis*, pedipalpaltarsal forked hair p. 803 figs., *Kozlowski & Musiel*.

Steganacarus phyllophorus comb. nov.
pro *Hoploderma phyllophorum* Berlese 1904 p. 97 figs., *Schuster*.

Sternostoma cisticolae sp. nov. ♀. ♂ off *Cisticola chiniana*, Debeete, Bechuanaland p. 218 figs., *Fain* (2); *S. laniorum* var. *batis* var. nov. in nasal cavities of *Batis molitor puella*, Akanyaru, Belgian Congo p. 77 fig.; *S. colii* ♀ p. 79 figs.; *S. cooremani* ♀ p. 72 figs.; *S. cryptorhynchum* ♀ p. 70 figs.; *S. cuculorum* ♀ p. 74 figs.; *S. dureni* ♀ p. 68 figs.; *S. hirundinis* ♀ p. 72 fig.; *S. lagonostictae* ♀ p. 72 figs.; *S. laniorum* ♀ p. 76 figs.; *S. nectarina* ♀ p. 68 figs.; *S. sturnicola* ♀ p. 65 figs.; *S. thienponti* ♀ p. 68 figs.; *S. tracheacolum* ♀ p. 65 figs., *Fain* (8); *S. hutsoni* sp. nov. ♀ in nasal cavity if *Hylocichla u. ustulata* (russet-backed thrush), California p. 477 figs.; *S. spatulatum* sp. nov. ♀ in nasal cavity

of *Hylocichla u. ustulata*, (russet-backed thrush), California p. 480 figs.; *S. strandtmanni* sp. nov. ♀. N. L. in nasal cavity of *Agelaius tricolor*, California p. 476 figs.; *S. cryptorhynchum* ♀ p. 475 fig.; *S. technau* ♀ p. 482 figs.; *S. tracheacolum* ♀ p. 478 figs.; *S. turdi* ♀ p. 481 figs.: Key to species p. 474, *Furman*.

Stigmagnathus Summers & Schlinger 1955 syn. of *Neognathus* Willmann 1952 p. 55, *Summers* (2).

Stomacarus macfarlani sp. nov. ♂. ♀ Tucuman, Argentina p. 213 figs., *Grandjean* (5).

Stygomomonia rotunda ♀ p. 376 fig., *Imamura* (1).

Stygovolzia gen. nov. [Hydrovolziidae] p. 49: type species *S. uenoii* sp. nov. ♂. ♀ N. Miyazaki-cho, Kyoto, Japan p. 49 figs., *Imamura* (2).

Suctobelba lobodentata sp. nov. Zillertaler Alpen, Tirol p. 111 fig., *Mihelčič* (5); *S. acutidens*, *S. perforata* new to Denmark p. 48, *Haarløv*.

Synchthonius elegans sp. nov. Sweden p. 210 figs., *Forsslund* (1).

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Tenuipalpoides gen. nov. [Tetranychidae] p. 183; type species *T. zizyphus* sp. nov. Armenia p. 185, *Rekk & Bagdasaryan* (4); *T. zizyphus* ♀ p. 93 fig., *Bagdasaryan*.

Tenuipalpus annoneae sp. nov. ♀. ♂. N. off *Annona* sp., Matias Romero, Mexico p. 91 figs.; *T. burserae* sp. nov. ♀. N off *Bursera* sp., Ocoocoatoca, Mexico p. 90 fig.; *T. cedrelae* sp. nov. ♀. ♂. N. off *Cedrela* sp., San Blas, Mexico p. 91 figs.; *T. chilorum* sp. nov. ♀. ♂. N. off *Achras zapota*, Tuxtla Gutierrez, Mexico p. 91 fig.; *T. coyacus* sp. nov. ♀. ♂. N. off coco de aceite, San Blas, Mexico p. 83 fig.; *T. crescentiae* sp. nov. ♀. N off cuasticomete, San Blas, Mexico p. 89 figs.; *T. kapoki* sp. nov. off *Ceiba pentandra*, Tuxtla Gutierrez, Mexico p. 89 fig.; *T. lucumae*

sp. nov. ♀. ♂. N. off *Lucuma salicifolia*, Tuxtla Gutierrez, Mexico p. 84 fig.; *T. meekeri* sp. nov. ♀. ♂. N. off fern, San Blas, Mexico p. 82 figs.; *T. sanblasensis* sp. nov. ♀. N off naranjilla, San Blas, Mexico p. 89 fig.; *T. tabebuiae* sp. nov. ♀. N. off *Tabebuia pentaphylla*, San Blas, Mexico p. 85 fig.; *T. tecpanicus* sp. nov. ♀. ♂. N. off capulinillo, San Blas, Mexico p. 87 fig.; *T. unimerus* sp. nov. ♀. N off guamacete, San Blas, Mexico p. 84 fig., De Leon; *T. orchidarum* new to Denmark p. 32, Haarlov.

Teresothrombium mastigotarsum sp. nov. larva off Hemiptera, *Phyllotreta nemorum*, Fundul Moldovei, Rumania p. 143 figs.; *T. susteri* sp. nov. larva off Hemiptera, *Phyllotreta nemorum* and *P. atra*, Feliceni, Rumania, nymph described p. 134 figs.; key to species p. 147, Feider.

Tetranychina richteri sp. nov. Armenia p. 52, Bagdasaryan (2); *T. richteri* ♀. ♂ p. 80 fig.; *T. spectabilis* ♀. ♂ p. 76 fig.; *T. zachvatkini* ♀. ♂ p. 76 figs.; key to species p. 75, Bagdasaryan; *T. zachvatkini* sp. nov. Armenia p. 191, Rekk & Bagdasaryan (5).

Tetranychopsis matikaschvilliae sp. nov. Georgia, SSR. p. 174, Rekk (1); *T. spiraeae* sp. nov. Georgia p. 181, Rekk (2); *T. horridus* ♀ p. 70 fig.; *T. spiraeae* ♀ p. 69 fig.; *T. matikaschvilliae* ♀ p. 72 fig.; key to species p. 69, Bagdasaryan.

Tetranychus armeniaca sp. nov. Armenia p. 372, Bagdasaryan (1); *T. armeniaca* ♀ p. 147 fig.; *T. crataegi* ♀ p. 148 fig.; *T. nikolskii* ♀. ♂ p. 146 fig.; *T. urticae* ♀. ♂ p. 144 fig., Bagdasaryan; *T. nikolskii* sp. nov. Georgia, SSR. p. 178, Rekk (1); *T. viennensis*, morphology, biology and control p. 1 figs., Müller, G. F. W.

Tetrathrombium macronychus sp. nov. larva off Tipulid, *Ptychoptera* sp., Vlahita, Rumania p. 164 figs.; key to species p. 169, Feider & Suciu (3).

Teutonia cometes ♂ p. 62 fig., Lundblad.

Thermacarus thermobius? p. 8 fig., Viets, K. (2).

Thyas barbigera ♂ p. 49 fig.; *T. rivalis* ♂ p. 49 fig., Lundblad.

Thyopsis cancellata nym. p. 53 fig., Lundblad.

Thyreophagus entomophagus ♀. ♂ p. 145 figs.; *T. corticalis* ♀. N. p. 148 figs., Türk & Türk.

Thyzanocercus gen. nov. [Proctophyllodidae Alloptinae] p. 501; type species *Alloptes cypseli* Canestrini and Berlese ♂. ♀ p. 502; *T. callithyrus* sp. nov. ♂. ♀ off *Micropus affinis*, Ambam, South Cameroons and Batouri on frontier between Cameroons and Oubangui-Chari, p. 501, Gaud & Mouchet (3).

Tiphys oliveri sp. nov. ♂ Baffin Id. p. 1 figs., Habeeb (1); *T. (s. str.) lapponicus* ♂. ♀ p. 245 fig., Lundblad.

Torrenticola neoanomala sp. nov. ♂ Victoria Co., New Brunswick p. 2; *T. tricolor* sp. nov. ♂ Sussex Co., New Jersey p. 1; *T. amplexa neoconnexa* subsp. nov. ♂ Victoria Co., New Brunswick p. 1, Habeeb (2); *T. (s. str.) subterranea* sp. nov. ♀ Aioi City, Hyogo Prefecture, Japan p. 354 fig., Imamura (1); *T. (s. str.) ischnophallus* sp. nov. ♂. ♀ Aix-les-Bains, France p. 167 figs.; *T. (s. str.) microphallus* sp. nov. ♂. ♀ Ribas, Spain p. 151 figs.; *T. (s. str.) amplexa* var. *minutivalvata* var. nov. ♂. ♀ Argeles, France p. 166 figs.; *T. (s. str.) amplexa* var. *tenuipalpis* var. nov. ♀ Santa Gomba, Portugal p. 167 figs.; *T. (s. str.) amplexa* ♀ p. 164 fig.; *T. (s. str.) andrei* ♂ p. 160 fig.; *T. (s. str.) anomala* ♂. ♀ p. 148 fig.; *T. (s. str.) barsica* ♂. ♀ p. 158 fig.; *T. (s. str.) brevirostris* ♂. ♀ p. 153 fig.; *T. (s. str.) elliptica* ♂. ♀ p. 149 fig.; *T. (s. str.) guadarramensis* ♀. ♂ p. 156 fig.; *T. (s. str.) hispanica* ♀. ♂ p. 154 fig.; *T. (s. str.) lundbladi* ♂ p. 162 fig.; *T. (s. str.) ungeri* ♂. ♀ p. 161 fig.; *T. (Monatrac-tides) aberrata* ♀. ♂ p. 174 fig.; *T. (M.) lusitanica* ♂. ♀ p. 176 fig.; *T. (M.) madritensis* ♂. ♀ p. 172 fig.; *(M.) stadleri* ♂. ♀ p. 169 fig.; *T. (M.) stadleri* var. *stenostoma* ♂ p. 171 fig.; key to species p. 178, Lundblad; *T. stenostoma* ♂ p. 144 figs., Viets, K. O.

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Trachyuropoda borinqueni sp. nov. ♀ with *Rattus norvegicus*, San Juan, Puerto Rico p. 67 fig., Fox.

Tragardhula acuscutellaris larva p. 401 figs.; *T. kwanacara* sp. nov. larva off *Nycticorax* n. *nycticorax*, Canton, China p. 402 figs., Chen & Hsu (1); *T. najai* sp. nov. larva off *Naja naja*, India p. 313, Hiregaudar (2).

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Trhypochthonius monodactylus sp. nov. Caceres, Spain p. 45 fig., *Mihelčič* (3).

Trichoribates angustatus sp. nov. Madrid, Spain p. 108 fig.; *T. novus* var. *dentatus* var. nov. Los Molinos, Spain p. 108 fig.; *T. latelamellatus* var. *angustissima* var. nov. Caceres, Spain p. 108, *Mihelčič* (4).

Trichotheyas (L.) *petrophila* ♂. N. p. 53 figs., *Lundblad*; *T. (Kashmirothyas) hutchinsoni* p. 3 figs., *Viets, K.* (2).

Trichotrombidium gen. nov.; type species *T. muscae* sp. nov. p. —, *Kobulej*; *T. muscarum* p. 1471 figs., *Milan*.

Trigonuropoda terrae-reginae sp. nov. ♀. ♂ Green Ant Is., Great Barrier Reef p. 213 figs., *Domrow*.

Trimalaconothrus saxosus sp. nov. Barcelona, Spain p. 164 figs.; *T. scultetus* sp. nov. Oldenburg, Germany p. 163 figs.; *T. foveolatus* p. 162 fig.; *T. glaber* p. 161 fig.; *T. tardus* p. 165 figs.; *T. vietsi* p. 165 figs.; *T. (Tyrpho-nothrus subgen. nov.) novus* p. 160 figs.; key to species p. 168, *Knülle*; *T. novus* p. 52 fig., *Haarlov*.

Trombicula youhensis sp. nov. larva off *Mastomys coucha*, Youhé, Tchad p. 560 figs., *Abonnenc & Taufflieb* (1); *T. (Leptotrombidium) langati* sp. nov. larva off *Rattus edwardsi*, Pinetree Hill, Pahang also off *Rattus mulleri*, off *Callosciurus tenuis* p. 359 figs.; *T. victoriensis* sp. nov. adult Fern-tree Gulley, Victoria p. 379 figs., *Audy & Womersley* (6); *T. (Leptotrombidium) yui* sp. nov. larva, China p. 140 figs.; *T. akamushi* var. *deliensis* p. 135 figs.; *T. munda* p. 135 figs., *Chen & Hsu*; *T. (Trombicula) agutii* sp. nov. larva off *Dasyprocta aguti*, Cayenne, French Guiana p. 4 figs.; *T. (Eutrombicula) pacae* sp. nov. larva off *Cuniculus paca*, Cayenne, French Guiana also off *Dasyprocta aguti* p. 1 figs., *Floch & Fauran*; *T. tsushimaensis* sp. nov. Tsushima Island, Japan p. 1019, *Fujisaki*; *T. bandupi* sp. nov. larva off *Rhinolophus rouxi*, Tulsi Lake Tunnel, Bombay, India p. 251 figs., *Hire-gaudar & Bal* (3); *T. (Leptotrombidium) fukuoka* sp. nov. larva off *Apodemus speciosus*, Mt. Iwaya, Fukuoka Pref., Japan p. 169 fig., *Kamo*; *T. acomys* sp. nov. larva off *Acomys cahirinus* (rat), Mishmar Ha Emek, Israel p. 140 figs.; *T. palestinianus* sp. nov. larva off *Acomys cahirinus* (rat), Mishmar Ha Emek, Israel p. 141 figs., *Radford*; *T. brevisetigera* sp. nov. larva, Northern Oset & Gruz, SSR, p. 56 fig.; *T. iberica* sp. nov. larva, Gruz, SSR p. 50 figs.; *T. raropinnis* sp. nov. larva off *Crocidura* sp. and *Aticola* sp., Tadzhikistan p. 66 fig.; *T. reptilis* sp. nov. larva off *Alsophylax pipiens*, Aschzhabad, SSR p. 64 figs.; *T. tarda* sp. nov. larva off *Microtus nivalis*, Daghstan and Gruz, SSR, also off *Cricetulus migratorius*; off *Apodemus sylvaticus*; off *Prometheomys schaposchnikovi* p. 48 fig.; *T. acusculellaris* larva p. 59 fig.; *T. hirsuta* larva p. 65 fig.; *T. (M.) manis* larva p. 67 fig.; *T. microti* larva p. 55 fig.; *T. pomerantzei* larva p. 52 fig.; *T. radfordi* larva p. 54 fig.; *T. talyzini* larva p. 61 fig., *Schluger*; *T. mini* sp. nov. larva off *Hyrax* sp., Kaabong, Uganda p. 486 figs.; *T. rossi* sp. nov. larva off *Hyrax* sp., Kaabong, Uganda p. 485 figs.; *T. ugandae* sp. nov. larva off *Canis familiaris*, Entebbe, Uganda p. 484 figs., *Vercammen-Grandjean & Brennan* (5); *T. (Vorcania) densipiliata* *dumbletoni* subsp. nov. larva off rat, Nissan Is., Green Is., Bismarck Archi-

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Trombiculindus cuneatus larva p. 399 figs., Chen & Hsu (1).

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Typhlodromus longilaterus sp. nov. ♀. ♂ off *Cynodon dactylon* (Gramineous), Rovigo, Algeria p. 218 figs.; *T. ornatus* sp. nov. ♀ off *Rubus ulmifolius*, Baraki, Algeria p. 216 fig., Athias-Henriot (1); *T. (Typhlodromus) arboreus* sp. nov. ♀ off apple leaves, Vancouver, British Columbia p. 292 figs.; *T. (T.) flumensis* sp. nov. ♀ off soopolallie (*Shepherdia canadensis*), Hedley, British Columbia p. 290 figs.; *T. (T.) singularis* sp. nov. ♀. ♂ off Douglas Fir, McIntyre Creek, British Columbia also off ponderosa pine, off lodgepole pine, off white pine, off juniper, off maple, off *Thuya* sp., off sumac, off mock orange (*Philadelphus lewisii*), off black cotton wood (*Populus trichocarpa*), off willow, and off spruce p. 289 figs.; *T. (T.) validus* sp. nov. ♀ off ponderosa pine, McIntyre Creek, British Columbia also off black cotton wood and off wild cherry p. 290 figs.; *T. (Amblyseiulus) andersoni* sp. nov. ♀ off prune foliage, Rosedale, British Columbia p. 296 figs.; *T. (A.) berlesei* sp. nov. ♀. ♂ off *Ranunculus* sp., Nakusp, British Columbia also off birch (*Betula* sp.) p. 292 fig.; *T. (A.) desertus* sp. nov. ♀ off black cottonwood, McIntyre Creek, British Columbia also off willow p. 294 figs.; *T. (A.) morganii* sp. nov. ♀ off dandelion, Trout Creek Point, British Columbia p. 294 figs.; *T. (A.) okanagensis* sp. nov. ♀. ♂ off peach foliage, Oliver, British Columbia also off "cover crop," off apple leaves and off burdock p. 293 figs.; *T. (A.) aequipilus* ♀ p. 302 figs.; *T. (A.) caudatus* ♀ p. 306 figs.; *T. (A.) foenalis* ♀ p. 300 figs.; *T. (A.) fraterculus* ♀ p. 300 figs.; *T. (A.) grandis* ♀ p. 304 figs.; *T. (A.) longulus* ♀ p. 302 figs.; *T. (A.) perlóngisetus* ♀ p. 299 figs.; *T. (A.) obtusus* ♀ p. 306 figs.; keys to ♀♀ of British Columbia p. 298, Chant; *T. aceri* sp. nov. ♀. ♂ off maple, *Acer campestre*, Essex, England also off hazel, *Corylus avellana* p. 199 fig.; *T. scoticus* sp. nov. ♀. ♂ off *Salix* sp. Kyle of Lochalsh and Achiltibuie, Scotland p. 200 figs., Collyer; *T. mesembrinus* sp. nov. ♀ off corn leaf, predator of *Oligonychus pratensis* Mercedes, Texas p. 165, Dean; *T. alveolaris* sp. nov. ♀ off

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Tyroglyphus echinopus Fumouze & Robin 1868 placed on Official List p. 117, Direction 67; *T. farinae* ♂. ♀. deutonym. p. 63 figs., Türk & Türk.

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Weigaia bakeri sp. nov. ♀ Mocksville, North Carolina p. 23 figs.; *V. ignaseta* sp. nov. ♀. ♂ Vancey Co., North Carolina p. 38 figs.; *V. lucilia* sp. nov. ♀ Korean National Forest p. 49 figs.; *V. piliseta* sp. nov. ♀. ♂ Wake Co., North Carolina p. 56 figs.; *V. smithi* sp. nov. ♀. ♂ Davie Co., North Carolina p. 70 figs.; *V. tibbetsi* sp. nov. ♀ Korea p. 74 figs.; *V. uncata* sp. nov. ♀ Raleigh, North Carolina p. 82 figs.; *V. bouvieri* ♀. ♂ p. 27 figs.; *V. capreolus* comb. nov. for *Cyrtolaelaps capreolus* Berlese 1905 p. 28 fig.; *V. cerva* ♀. ♂ p. 29 figs.; *V. exigua* p. 33 fig.; *V. grandipes* ♀ p. 34 figs.; *V. kochi* ♀ p. 42 fig.; *V. leruthi* ♀. ♂ p. 47 figs.; *V. mitis* comb. nov. for *Cyrtolaelaps mitis* Berlese 1916 p. 52 figs.; *V. paradoxa* ♀. ♂ p. 56 figs.; *V. planicola* ♀ p. 62 fig.; *V. propinquia* ♀. ♂ p. 63 figs.; *V. pusilla* ♀ comb. nov. for *Cyrtolaelaps pusillus* Berlese 1916 p. 65 figs.; *V. serrata* ♀ p. 67 figs.; *V. transisalae* ♀. ♂ p. 77 figs.; key to ♀♀ p. 17; key to Nearctic ♂♂, Farrier; *V. cervus*, *V. kochi*, *V. nemorensis*, *V. serrata* all new to Denmark p. 23, Haarløv.

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Vietsthys gen. nov. [Thyasidae: Vietsthysinae] p. 104; *V. fonticola* sp. nov. ♀ Gemeinde Ponor, Hungary p. 104 figs., Motas et al.

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Bombay, India p. 253 figs., *Hiregaudar*
& Bal (3); *W. oweni* sp. nov. larva off
Rhinolophus eloquens, Torit, Sudan,
also off *Rousettus* sp. p. 495 fig.,
Vercammen-Grandjean & Brennan (5);
W. penthetor sp. nov. larva off bat,
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Wichmannia stammeri sp. nov. ♀. ♂.
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Türk.

Womersleyessia gen. nov. [Trombidioidea] p. 155, Feider. [Omitted from
Z.R. 1955 No. 259.]

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Yunkeracarus gen. nov. [Epidermoptidae] p. 473; type species *Y. muris*
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Arvicanthis abyssinicus rubescens and
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369 figs., Tipton.

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No record.

KUSTARACHNIDA

No record.

HAPTOPODA

No record.

TRIGONOTARBI

No record.

TARDIGRADA

PHALANGIOTARBI

No record.

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Diesingia sp. new host, *Engyurus carinatus* (Pacific boa), Florida Id., Solomon Is. p. 196, Self & Kuntz.

Kiricephalus pattoni, new host, *Ahaetulla calligaster* (painted bronze snake), Florida Id., Solomon Is. p. 196, Self & Kuntz.

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Raillietiella affinis, new host, *Lepidodactylus lugubris* (sad gecko), Florida Id., Solomon Is. p. 196; *R. affinis*, new host, *Scincus officinalis* (Egyptian sand skink), Nile Delta, also from *Chalcides sepsoides* (sand skink), from *Agama stellio* (starred lizard), from *Eumeces schneiderii* (gold skink), from *Uromastyx aegyptia* p. 195; *R. gehyrae* new host, *Agama stellio*, Egypt p. 195, Self & Kuntz.

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Key work to fauna of Hungary
with keys to families, genera and species,
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Echiniscus (E.) migiurtinus sp. nov.
Migiurtinia, Somaliland p. 223 figs.,
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Hypsibius conjugens new to United States of America p. 145 fig., Curtin; *H. prosostomus* new to Great Britain p. 11, Le Gros; *H. prosostomus* new to Rumania p. 152; *H. schaudini* new to Rumania p. 152, Péterfi; *H. (Diphascon) nodulosus* sp. nov. Tenderfoot Lake, Wisconsin p. 188 figs., Ramazzotti.

Macrobiotus echinogenitus new to United States of America p. 144 figs.; *M. intermedius* new to United States of America p. 144 figs., Curtin; *M. furciger* new to Rumania p. 151, Péterfi; *M. spertii* sp. nov. Colle Sud del Monte Sarmiento, Tierra del Fuego p. 189 figs., Ramazzotti.

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On the status and type species of Newport's genera, Crabill.

Keys to families, genera and species of Germany with figs., Crome (2).

Key to species in East Sussex, England, Eason.

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Aulonopygus aculeatus barbieri subsp. nov. ♂ Abidjan, Ivory Coast p. 228 figs.; *A. aculeatus* ♂ p. 226 figs., Demange (2).

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Cleidogona caroliniana sp. nov. ♂ Fayetteville, North Carolina p. 115 figs.; *C. moderata* sp. nov. ♂ Tamazunchale, Mexico p. 115 figs.; *C. propria* sp. nov. ♂ ♀ Puerto Las Peras, Mexico p. 119 figs.; *C. secreta* sp. nov. ♀ Oaxaca, Mexico p. 119 fig.; *C. wrayi*

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†*Juloiites quadripustulatus* sp. nov. slate-coal bed, eocene, Neumark-West, Germany p. 10 fig., Haupt (1).

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Mestosoma andresense sp. nov. ♂. ♀ San Andres, Cutervo, North Peru p. 95 figs., Kraus (3).

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ERRATA

Vol. 41 1904: 8 Title "32" delete.
[Coelentrata]: 44 last 2 lines delete.

Vol. 83 1946: 73 col. 2 line 10 from
bottom for "Myocoptes" stigmatus
read "Mysolaelaps" stigmatus.

Vol. 90 1953 : 79 line 13 for "Atrax"
read "Atax."